



INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING

ANNUAL REPORT 2017 / 2018



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2. Introduction

(Max Bramer. Vice-President)

This is the first in what is envisaged as a regular series of reports issued by IFIP, the International Federation for Information Processing, based on papers prepared for our annual General Assemblies. This report covers the period from October 2017 up to the General Assembly in Poznan, Poland in September 2018.

IFIP is a global non-profit federation of societies of ICT professionals. It aims to achieve the worldwide professional and socially responsible development and application of information and communication technologies. The Federation's membership comprises over 40 national and international ICT societies in six continents. Together its member societies represent over half a million ICT specialists worldwide.

IFIP also has thirteen Technical Committees (TCs) covering all areas of ICT from Foundations of Computer Science through Artificial Intelligence to ICT and Society. The TCs have approximately 100 Working Groups which comprise around 3,500 international ICT specialists. Together they organise, sponsor or co-sponsor over 100 events each year, bringing together skilled professionals and thought leaders from ICT industry, research and policy to enable the sharing of knowledge and development of professional standards. Proceedings are published in major technical publications such as the Springer Lecture Notes in Computer Science series. All papers are also made available free of charge in the IFIP Digital Library.

As well as Technical Committees, IFIP has four Domain Committees, established to strengthen inter-disciplinary work, specifically in application domains where ICT is increasingly being deployed. There are currently Domain Committees on Cloud Computing, IT in Disaster Risk Reduction, Health Informatics and Internet of Things.

As part of its commitment to professionalism, IFIP has established IP3, the International Professional Practice Partnership, which is developing an infrastructure to encourage and support the development of both ICT practitioners and employer organizations, recognise those who meet and maintain the required standards for knowledge, experience, competence and integrity, and define international standards of professionalism in ICT. It currently has members in 14 countries.

IFIP pays special attention to the needs of developing countries and assists them in obtaining optimum benefit from information technology through its standing committee on Digital Equity and otherwise.

The Federation's main flagship event is the World Computer Congress (WCC), which has run approximately every two years since 1959 and includes exhibitions of computer systems and services, world-class technical events, symposia and workshops. The twenty-fourth WCC was held in Poznan, Poland in September 2018.

This document contains reports on all areas of the Federation's activity. Further information is available from the committees, societies etc represented here or from the General Secretary, Eduard Dundler at eduard.dundler@ifip.org. Up to date news is also available from our free monthly publication, IFIP Insights, circulated by email, which contains news from IFIP member societies, Technical Committees etc around the world. A free subscription is available from http://www.ifip.org/insights_register/. Recent articles can be seen at ifip2.org or ifip.org/visitors.

3. President's Report

(Mike Hinchey, IFIP President)

The following concern my activities since last General Assembly in September 2017:

UN/UNESCO/ITU

I have been actively pursuing contacts with UNESCO and ITU, building on the contacts that Leon Strous, Stephen Ibaraki, and Bernard Cornu have made with them, and contacts with the UN facilitated by A Min Tjoa.

I was a speaker at UNESCO's International Day for Universal Access to Information (IDUAI) which was held in Mauritius on 28th September 2017. This is to be a regular UNESCO event always held on 28th September. UNESCO has invited IFIP to be a co-sponsor of this event going forward.

UNESCO has invited IFIP to celebrate its 60th anniversary at UNESCO HQ in Paris in September 2020. This would be back-to-back with or straddle IDUAI 2020, which seems very appropriate. I had originally thought of this being WCC 2020, but now feel it should be a separate 2-day celebration of IFIP with all invited speakers, and an appropriate social event. UNESCO, and particularly Dr Indrajit Banerjee, Head of the Knowledge Societies Division and Davide Storti have been very supportive. Their staff are helping with making reservations at UNESCO for 2020.

Shamika Sirimanne, Director at UN-CTAD invited IFIP to run a "side-event" at an event in Geneva in May 2018. The topic was "AI and Ethics". The intention was that I would act as Chair, Stephen Ibaraki would participate as well as other members of IFIP. Professor Sir Roger Penrose confirmed as a speaker. Professor Stephen Hawking was invited and we had a tentative agreement, but unfortunately his PA advised us of his demise before his recent passing. IFIP participated in ITU's AI for Good, which Stephen Ibaraki led, and Roger Penrose also participated in. Professor Penrose was also part of the UN-CTAD opening.

UN-CTAD has asked us to support again in May 2019, and I have a conference call with ITU in October to see what ways we can work together in the future.

WSIS 2018 was held in Geneva in March 2018. Yuko Murayama, Moira de Roche, Stephen Ibaraki, Raymond Morel and others were actively involved. Moira led the IFIP delegation. Unfortunately due to cancelled flights I was unable to make it to Geneva in time.

Activities with Member Societies

In January 2018, I attended CSI 2017 in Kolkata as Keynote Speaker. This is the CSI annual event postponed from December 2017. I am grateful to the Computer Society of India for making me an Honorary Fellow. I will attend their next event (CSI 2018) in December 2018.

I have plans to meet with the incoming President of BCS (facilitated by Andrew McGettrick and Ray Long).

I was in Cape Town in March and will give a talk to ITPSS on 22nd March.

While not individually a member, INRIA is an important collaborator as part of the France membership. I attended their 50th anniversary celebrations in Paris in November 2017.

Additional Members

Moira de Roche and Adrian Schofield have been working with the government of Tanzania, who are interested in starting an IT association. Thanks to Moira and Adrian, I attended Tanzania's first IT conference as a keynote speaker. They have indicated that they would like to join IFIP and there are plans for me to meet their Minister.

I have spoken to approximately 1/3 of the Board of Directors of IEEE and all were in favor of re-joining IFIP, but with the membership being at the IEEE level rather than as IEEE Computer Society. I met the incoming (2019) IEEE President in Scotland in April and he was very positive about rejoining and I will be following up with him.

Informatics Ukraine (and in particular Nikolay Royenko who hosted the Board at his company, Miratech, last year) would like to host WCF 2019 at the Kiev Hilton, October 2019. They have many contacts with companies in Eastern Europe. Informatics Ukraine could become the first second-member in IFIP depending on the vote at GA. [Editor's note: their application was subsequently approved.]

I have been in contact with the Botswana Computer Society about possible membership. This is not the previous Botswana member, but rather a different society. They plan to attend GA as observers.

InterYIT

I have appointed Amit Joshi as the new InterYIT Chair. Amit has run several events for students and young professionals and has some exciting ideas for rejuvenating InterYIT in the near future.

4. Honorary Secretary's Report

(A Min Tjoa, IFIP Honorary Secretary)

Since the General Assembly 2017 in Colombo, Sri Lanka, the Honorary Secretary has held several face to face business meetings with the General Secretary Mr. Eduard Dundler, the head of IFIP Secretariat. Current important managerial issues and collaborative aspects were explained and discussed in-depth.

The efforts reported with the Austrian Federal Ministry resulted in a subsidy for 2018 / 2019 of € 50.000. I have to especially mention Eduard Dundler's tireless role for lobbying IFIP at the Austrian Ministries.

Mr Dundler reported the outcome of the TC 5 (Information Technology Applications) meeting in Krakow, led by the Chair of TC5; Tadeusz Czachorski.

In May this year Mr Dundler participated in the business meeting of TC6, which was led by the new TC6 Chair, Mr Burkhard Stiller. In June this year Mr Dundler participated in the business meeting of TC3, which was led by the TC3 Chair, Mr Sindre Roesvik. In July this year Mr Dundler participated in the business meeting of TC7, which was led by the TC7 Chair, Mr Fredi Trötsch. In all these TC meetings Mr Dundler had the opportunity to transfer knowledge from the IFIP governing bodies to the Technical Committees, to explain and help on financial issues and to solve administrative issues.

IFIP Digital Library: The staff worked hard to get all proceedings from 2017 and all from 2018 published by Springer changed and sent to INRIA for loading into IFIP's Digital Library. In addition publications from history were loaded. Although the process for loading the Springer proceedings is clear and straightforward the workload on the Secretariat should not be underestimated.

Membership

Related to the IFIP membership I can report to General Assembly that by the end of 2017 IFIP had (see the members' list on IFIP Website):

- 39 Regular Members with voting rights.
- 3 Members with suspended voting rights (China, Hungary, Spain)
- 4 Associate Members: CEPIS, IMIA, SEARCC, VLDP
- 9 Honorary Members
- 9 Ex-Officio Members

Membership issues will be discussed in detail under the relevant topic of the agenda of this General Assembly.

EC work between GA2017 and this GA 2018

In order to arrange and solve several current issues the EC had discussions and made decisions

- electronically by emails,
- held one face to face meeting: March 2nd, 2018
- held three teleconferences: October 10th 2017, January 30th 2018 and March 15th, 2018

The Secretariat continues to run smoothly and on behalf of the IFIP officers I would like to take the opportunity to express our thanks to the colleagues of the Secretariat for their excellent support.

5. Honorary Treasurer's Report

(Declan Brady, IFIP Honorary Treasurer)

Financial statements for the 2017 calendar year

The accounts have been maintained during 2017 by the Secretariat, monitored by the Treasurer, with statements prepared by *CONSULTATIO Wirtschaftsprüfung GmbH & Co KG*.

Summary of Financial Statements, 2017

For the calendar year 2017 IFIP budgeted an operating loss (i.e. excluding portfolio) of ~ €106k, intended to reflect expenditures associated with projects and activities. In the event, many of these additional expenditures did not occur.

Secretariat/administration costs have continued to decrease. *Total expenses for the year therefore stand at ~€389k.*

On the income side, membership dues were approximately €7.000 lower than budgeted. On the positive side, royalties from publications are up, as are proceeds from activities (though these are below budget). *Total income for the year stands at a little over €300k – an increase on 2016, but 10k below budget.*

This results in an operating loss of ~€88.9k, an improvement of ~€16k over the budget position.

Taking account of the performance of the portfolio (in terms of income, see below), this translates into a **net profit on the year of €85.965,07.**

From the perspective of financial performance, the 2017 result is again a good one for IFIP, though again one that relies for its sustainability on the continued success of the financial markets.

Observations on Auditor's Notes

Consultatio has not made any specific observations on the 2017 accounts.

Portfolio of Investments

The portfolio has shown a modest growth (an overall *net* increase in total portfolio value, taking account of investment performance and cash withdrawals) of some €54.136 against the 2016 position.

Overall, the portfolio funds increased during 2017 by €192.136. During the year, portfolio withdrawals (to cover our marketing contract, and to ensure orderly cashflow through the year) amounted to €138.000.

The portfolio of investments is managed on IFIP's behalf by UBS in London. It is a "balanced" investment, with costs compatible with expectations. Note that UBS proposes to transfer the management of the IFIP portfolio to its offices in Zurich.

Summary Conclusions

Operating performance continues to improve, with the Secretariat continuing to do a good job of controlling expenditure.

6. IFIP Historian's Report

(Roger Johnson, IFIP Historian)

Options for Celebrating IFIP's 60th Anniversary in 2020

Background

IFIP was founded in 1960 and has celebrated several significant birthdays since then. The motivations for the celebrations included:

- Raising IFIP's visibility and credibility on the global stage by publicising IFIP's recent major achievements
- Acknowledging the contribution of the several thousand volunteers in IFIP who have devoted their enthusiasm, time and skills to advancing IFIP's objectives
- Celebrating the sustained record of IT more widely in improving the lives of citizens worldwide.

In 2010 the event was marked by special contributions during the World Computer Congress and the publication of a book recording IFIP's development since the previous celebration in 1996.

As a global body, IFIP needs to sustain and hopefully expand its reputation as a major international meeting place for world class researchers as well as representatives of the world's major IT institutions. The Diamond Jubilee offers IFIP another opportunity to demonstrate its relevance to the advancement worldwide of Information Processing.

The purpose of this paper is to invite members of the IFIP General Assembly to consider a number of ideas to mark the 60th anniversary and to enable GA members to add more ideas for the IFIP Historian to work on. Following GA, work can start on

Suggestions for 2020

There follow a number of proposals some of which are based on ideas which have been successful at past IFIP celebrations and several new ideas. The purpose is to encourage GA members to decide how they wish to celebrate the 60th anniversary.

The Historian would very much welcome feedback from the GA.

1. Commemorative book

Three commemorative books have been produced marking the 25th, 36th and 50th anniversaries of the founding of IFIP. These have generally taken the form of a series of papers by leading IFIP figures who have served during the period since the last book. Contributors have included the current IFIP President and the past Presidents for the period, a paper from each of the TCs usually written by the current Chair and papers by other officers including the current Secretary and Treasurer. The book was circulated within IFIP to office holders and to the Member Society Presidents and representatives. Contemporary initiatives such as WITFOR and IP3 should also be recognised in a future book.

Since my last report the President, Past President and I had a thought-provoking meeting with David Grier, the distinguished US computer historian. This was a follow up to an earlier meeting between us. We exchanged ideas on the possible content for a 60th anniversary book and all felt that it should record both the work of the last decade but also reflect on the influences that

have helped form IFIP over the past 60 years and in so doing enable us to reflect on its possible future role thus assisting GA in formulating plans for the 2020s.

Suggested contents would be:-

- a. Intro from the President – where is IFIP today and overview of what has happened in the past decade
- b. Globalisation of Computing – what has happened in the past 60 years. Possibly based on case studies around key application areas – banking, airlines etc
- c. IFIP's Accomplishments and Challenges
 - i. The Challenges of a Global Society
 - ii. Role of international bodies in a global society – work of global WGs, linking national and international member societies
 - iii. Power of other players around the globe
 - iv. Engineers or what – who are the “IT people”?
 - v. Professionalising what we do – IP3 and other experiences.
 - vi. WITFOR – IT for international development
- d. IFIP leaders of the past 10 years – their reflections and predictions
- e. Technical and other Committees – their accomplishments over the past 10 years

GA members are invited to comment on this draft contents list and to make suggestions.

2. WCC session

Previous celebrations have each coincided with a World Computer Congress. The celebration has been reflected in the Opening Ceremony and also by a history session within the Congress programme. At WCC 2020, consideration might be given to asking IFIP WG 9.7 on the History of Computing to advise on how the 60th anniversary might be marked at the Congress.

3. Displaying IFIP's TC heritage

Newcomers to IFIP, such as incoming member society Presidents and new TC & WG members, are often unaware of IFIP's rich legacy of seminal papers presented at past conferences. I am keen to include on the IFIP website an easily accessible set of pages with a short introduction to a small number of **key papers from each TC**. I believe the 60th anniversary would be a great opportunity to launch the results of such a project. It might also be appropriate to systematically update that website at each subsequent celebration if not sooner.

I would ultimately like to see all World Computer Congress proceedings scanned and available from the IFIP Digital Library. We could start with the proceedings of the 1960 Congress (which is held by a number of libraries) as part of the 2020 celebrations.

4. Celebratory logo

IFIP marked its 50th anniversary with a special logo. A 60th anniversary logo (possibly incorporating a Diamond design for 60 years) could appear on all

IFIP outputs and communications during the year, so that everyone coming in contact with IFIP during 2020 would know of the anniversary.

5. Local actions

Opening ceremonies and receptions have included national dignitaries with coverage in national media.

Depending on where the celebrations are held there may be an opportunity to mark the event locally. Several times the host country has issued a postage stamp to mark an IFIP event. The latest was in 1998 in Austria. Commemorative postmarks have also been applied. Opportunities for local initiatives are heavily influenced by custom and practice in the host venue.

The local organisers of WCC 2020 can be asked how they would plan to mark the event locally.

Benefits

In the view of the IFIP Historian for a small financial outlay, IFIP can achieve significant visibility from the celebration of its 60th anniversary. The main purposes of the celebration should be to:

- Raise IFIP's visibility and credibility by creating a record of the specific achievements made by IFIP volunteers over the past decade
- Recognise the contribution of the many IFIP volunteers in advancing information processing and hence helping fulfil IFIP's objectives
- Celebrate how the transforming power of information processing has been applied to improving humanity worldwide.

7. International Professional Practice Programme (IP3)

(Moira de Roche, Chair IP3)

Governance

The International Professional Practice Partnership (IP3) was founded by the International Federation for Information Processing (IFIP) in partnership with several leading professional ICT organizations from around the world. IFIP was founded under the auspices of the United Nations Educational Scientific Organization (UNESCO) in 1960 and now has over 56 country member bodies and affiliates representing over 90 countries. IFIP is a consultative body for IT for the United Nations Educational Scientific Cultural Organization, Sector Member for the International Telecommunications Union (ITU) and Scientific Associate Member of the International Council for Science (ICSU).

IFIP IP3 Mission

Our mission is to be a global partnership that will strengthen the global IT profession and contribute to the development of strong international economies by:

- defining international standards of professionalism in IT;
- creating an infrastructure that will encourage and support the development of both IT practitioners and employer organizations and give recognition to those who meet and maintain the required standards for knowledge, experience, competence and integrity;
- working closely with our member bodies and partners who share our commitment to creating a sound global IT profession.

IFIP IP3 also participates in the UN supported, ITU hosted World Summit for Information Society (WSIS) including formal recognition by ITU as a "Contributing Partner" (IFIP). Our work aligns to WSIS and the Sustainable Development Goals (SDGs). Representatives from the IFIP IP3 executive have led WSIS forums and high-level events in Geneva and Paris since 2012, they were invited to participate at the United Nations in New York and have made submissions to the UN General Assembly's overall review of the implementation of WSIS outcomes in 2015.

IP3 Vision

A vigorous program to promote professionalism in the IT profession equal to the older and longer established professions; define international standards and create a global infrastructure that will encourage and support the development of both practitioners and employer organizations in the developed and developing world through the creation of a worldwide set of professional certification schemes recognized as the hallmark of true IT professionalism, delivered through independent national member societies and supported by development frameworks for both individuals and organizations.

iDOCED

IP3 launched the IFIP Duty of Care in Everything Digital Campaign in November 2016. This campaign aims to promote Trust in Digital, and the Duty of Care that everyone including Governments; Organisations, Providers and Consumers have in keeping themselves safe in a Digital World, especially in the reality of the Cyber-physical world that has come with the Fourth Industrial Revolution. IP3 promote this message at every opportunity, and actively seek to "partner for Trust in Digital".

Chairman's Report

It is with great sadness that I finalise this report having heard of the passing of Brenda Aynsley on 12 August 2018. Brenda had been bravely fighting her illness

since 2015. She passed the baton to me in September 2017. Brenda took over as Chair of IP3 at a difficult time but after doing so worked tirelessly throughout her tenure to promote the message of Professionalism and to build the partnership. She was passionate about Trust and the Duty of Care. I think Adrian Schofield expressed it best “She will be sorely missed as a friend and colleague, but her legacy lives on through our commitment to her ideals.”

Since taking over in September 2017, I have endeavoured to promote the message of the iDOCED campaign “IFIP Duty of Care in Everything Digital”. This has been primarily by delivering presentations at various forums both local and abroad.

➤ *CSSL and SEARCC Conferences*

I was invited to speak at the annual CSSL conference, and together with IITPSA President Ulandi Exner delivered a presentation on Responsive and Reliable leadership.

As Brenda Aynsley was unable to travel to Colombo, I also presented at the CSSL Conference on Trust & the Duty of Care in her stead.

I must congratulate CSSL on both conferences and the associated social events. They were very professionally run, informative and enjoyable.

➤ *Computer Society Zimbabwe Summer School*

This event is held by CSZ annually during November. This year it was run at Elephant Hills Hotel in Vic Falls, and attracted +- 200 delegates, as well as several sponsors (including Oracle).

Both Anthony Wong and I were keynote speakers. My presentation “Developing ICT Professionals” explained what a professional is, how to develop and maintain professionalism, with a heavy emphasis on ethics. I had positive feedback from delegates after the presentation. Anthony’s presentation “AI: The Good and the Ugly”, was very well received.

➤ *Internet Governance Forum 17 – 20 December 2017, Geneva*

IP3 were allocated a session on Day 0, Sunday 17 December. Even though this is pre-conference, presenting on the first day also provides an opportunity for networking with delegates over the successive days. I was joined by Anthony Wong and Cyber-security specialist Dr Jill Slay.

The session was titled: “Good Governance is a Professional Standard, which builds Trust and Cybersecurity in the entire digital ecosystem”. Our objective was to spread the message of how partnering with IFIP IP3 can develop trust in digital, and why we should work together. Anthony and I participated in several other workshops.

➤ *IPSJ Accreditation*

A highlight of the year in review was the accreditation of Information Processing Society Japan (IPSJ) in February 2018 for its certification system of Certified IT Professional (CITP). The system is operated in two methods: the direct method and the indirect method.

This is the first accreditation of a non-English speaking country. I must congratulate IPSJ on the effort they put into translation of the accreditation documentation, as well as providing translators at the accreditation visit. There is more about this in the SAC report below, and in the IPSJ Society report.

➤ World Summit for Information Society 19 to 23 March 2018, Geneva

As we have every year since 2012, IP3 organised a thematic workshop at the WSIS Forum. Titled “ICT Professional’s Duty of Care in protecting everyone in the Fourth Industrial Revolution – an essential requirement in achieving the SDGs”. This workshop, held on 19 March, built on the success of IFIP IP3’s well-attended workshop at WSIS 2017, further examining the impact of Artificial Intelligence specifically, and the multidisciplinary concept of Trust. We considered the Duty of Care that individuals have in holding ICT Professionals accountable. The workshop supported WSIS Action Line C5 – Building Confidence and Security in the Use of ICT. Stephen Ibaraki presented on Artificial Intelligence, sharing many of the latest developments with the audience, and Moira explored Trust and the Duty of Care.

IFIP provided financial support for the event, and so we had branded banners and received a certificate at the WSIS reception.

I was appointed as a High-level Track Facilitator (HLTF) and moderated a track on ICT and Applications. The panel comprised senior government officials, a representative from an NGO, and the AL7 Action Line Facilitator from ITU. This position meant I was invited to several high-level events, which enabled me to network with many delegates from around the globe. I look forward to following up with the people I met, to pursue the partnership objective.

I was also invited to be on the panel of a Workshop on Friday 25 March on the Fourth Industrial revolution organised by Yemen, where I presented on AI as one of the technologies prominent in Industry 4.0.

This was the 15th Anniversary of the WSIS Forum, and our attendance since 2012 means we are recognised as committed contributors to the process.

➤ IT Leaders’ Summit 16 to 17 May 2018, Cape Town

I participated in a panel “Approaching Cyber-Security as a Leader”. I used the opportunity to promote iDOCED, as well as the benefit of belonging to IITPSA, an IP3 accredited Society. The delegates – all senior IT people from the Southern Africa region – were very interested in the concept and I have built some strong relationships as a result.

➤ IFIP IP3 logo – new tagline

When the IP3 logo was created in 2008, the tagline was “Transforming and Informing the IT Profession”. In line with the iDOCED campaign (IFIP Duty of Care in Everything Digital), and our vision that Trust is so integral to Professionalism, this has been changed to “Partnering for Trust in Digital”.

I must thank my Board, who work tirelessly to spread the message and carry out the Mission of IP3. I appreciate their support, and the trust they have put in me to lead the team.

Report from Vice-Chairman: IP3 Standards and Accreditation Council

Adrian Schofield from the Institute of Information Technology Professionals South Africa (IITPSA) has completed his fourth year as convener of the Standards and Accreditation Council (SAC).

The role and function of the SAC is to:

1. Establish and maintain standards, policies and procedures for the accreditation function
2. Manage the accreditation function, including the recruitment, appointment and training of assessors
3. Ensure compliance with the standards, policies and procedures and ensure consistency of decisions by assessment panels, including an audit function if required
4. Provide an assistance service to IP3 members in planning for accreditation provided that such assistance service does not compromise standards or the integrity and independence of the assessment process
5. Establish a working relationship with the Seoul Accord.

We have not been required to carry out any new work on standards, policies and procedures in the past year. We have not needed to recruit any additional assessors, nor have there been any assessment activities requiring audit.

We are delighted to report that IPSJ (Japan) was successful in its application for accreditation, which was reviewed by SAC assessors during an assessment visit in February 2018. IPSJ is congratulated for the very high standard of their professional membership scheme and for being the first non-English speaking society to achieve accreditation.

We are disappointed that the changes in the structure at CIPS continue to delay the re-accreditation of the Canadian scheme, but we have received assurances that they will be able to accommodate the assessment in the foreseeable future.

The Tanzanian ICT Commission has formed a professional body for ICT practitioners and held a conference and workshop in October 2017 to move their plans forward. Moira de Roche and Mike Hinchey attended the conference to promote the IFIP/IP3 ideals and provide advice to participants.

There is no other progress to report from other societies. We accept that the road to accreditation is a long one and that there will be periods of no visible activity while preparations proceed behind the scenes.

The IP3 Guide to Accreditation was launched in Geneva in June 2017, providing IFIP member societies with an overview of the processes as they consider the resources required for accreditation. The 2015 edition of the full IP3 accreditation guidelines provides the detailed template for all societies interested in being accredited. IP3 assessors are available to consult with societies who seek guidance on how to meet the IP3 compliance standards for their professional grades of membership and in the compilation of their applications for accreditation. Copies of these documents have been supplied to our Korean colleagues, who have expressed an interest in accreditation, following the success in Japan.

I thank the members of SAC and the assessors for their support and input.

Adrian Schofield
Vice Chairman IP3 Standards and Accreditation Council
July 2018

Please find full report at
<http://www.ifip.org/images/stories/ifip/members/GA2018/Reports/it13-1%20ifip%20ip3%20annual%20report%202017-2018.pdf>

8. Standing Committee Reports

8.1 Admissions Committee

(Max Bramer, Chair of the Admissions Committee)

There were three applications for membership under consideration at the General Assembly. In order for decisions to be made at the General Assembly meeting in Poznan, the Admissions Committee needed to send recommendations to GA members at least 40 days before the meeting (Bylaw 2.2.3).

The following summarises our recommendations.

- (1) Application from Association 'IT Ukraine' for National Member at Large (NMAL) status. The Association states that it represents 58 leading companies from all parts of Ukraine. These include 5 companies from the top 5 and 9 from the top 10. The companies are responsible for 50% of the revenue for the Ukrainian IT industry and 30% of the country's engineers. Both the Ukrainian CRM representative, Igor Grebennik, and the IFIP President have expressed strong support for this application and members of the Admissions Committee endorse this. Our recommendation is that this application be accepted.

General Assembly **accepted Association 'IT Ukraine'** unanimously as a National Member at Large.

- (2) Application from Carleton University, Ottawa, Canada for International Member at Large (IMAL) status. Universities are not in the list of societies and organisations that are eligible for Member at Large status (Bylaw 2.3.1), so this application for IMAL is invalid.

General Assembly **followed the advice** of Admissions Committee

- (3) Application from the Polytechnic University of Catalonia (PUC) for Associate Membership. This is the first application for Associate Membership since the bylaws were revised a few years ago. Having considered the implications of the new bylaws (especially Bylaws 2.4.2 and 2.4.3) in detail, the committee's view is that accepting PUC into Associate Membership would be of insufficient benefit to IFIP and our recommendation is that this application be declined.

General Assembly **followed the advice** of Admissions Committee.

8.2 Digital Equity Committee

(Gabriela Marin-Raventos, Chair of the Digital Equity Committee)

Membership of the Digital Equity Committee:

- Gabriela Marín-Raventós (CR), Chair of DEC and IFIP Vice-president
- Ramon Puigjaner (ES), former DEC Chair and former IFIP Vice-president
- Raymond Morel (CH), Switzerland representative to the IFIP GA and member of TC3
- Yuko Murayama (JP), IFIP Vice-president, TC11 Chair and Japanese representative to the IFIP GA
- Ana Pont (ES), Spanish representative to the TC6 and TPC Co-Chair of WITFOR 2016
- Sindre Rosvik (NO), Chair of TC3 on Education
- Lalit Sawhney (IN), Member Secretary, IFIP WITFOR 2012, New Delhi and former IFIP Vice-President
- Maung Sein (NO), Chair of WG9.4 on Social Implications of Computers in Developing Countries
- Siraj Shaikh (UK), Chair of WG6.9 on Communication Systems in Developing Countries
- Leon Strous (NL), IFIP Past President and one of WITFOR creators
- Diane Whitehouse (UK), Chair TC9 on ICT and Society
- Lawrence Gudza (ZW), Zimbabwean representative at the IFIP General Assembly
- A Min Tjoa (AT), IFIP Honorary Secretary
- Robert Davison(HK), Chair of WG9.4 on Social Implications of Computers in Developing Countries

Budget

Our total budget for 2018 is 12.000 euros.

It was completely allocated as follows.

Funding Requests for I-2018:

Request 1

Event: PhD-seminar in Thailand

Amount requested: not specified

Rationale: Invite Prof. Erich Neuhold to lecture in the seminar, and especially, to evaluate the quality of the PhD-work performed by the PhD-candidates and the quality of supervision. (The letter of invitation is attached)

Request sent by: A Min Tjoa, WG 8.9 chair (with George M. Kasper approval, TC 8 Chair).

Request 2

Event: OCCE 2018 - Empowering Learners for Life in the Digital Age (25th – 28th June 2018 OCCE.2018 Conference, 24th June 2018 Doctoral Consortium) Venue: Linz, Austria, Co-chairs: Cathy Lewin UK, Eric Sanchez CH. Link: <http://news-occe2018.ocg.at/c/30311623/cadd78ce48d-oxx1et>

Amount requested: 3000 euros

Rationale: Invite doctoral student from developing countries to the event both as regular participants and a doctoral consortium for mentoring and networking.

Request sent by: Sindre Røsvik, TC3 chair.

Request 3

Event: 24th IFIP World Computer Congress in Poznan, Poland, Sept. 17-21th.
Multiple CFPs of WCC 2018 can be found at <http://wcc2018.org/program>.

Amount requested: 3000 euros (for 3 persons 1.000 euros each)

Rationale: PhD student and keynoter from a developing country to get such support.

Request sent by: Jerzy Nawrocki, TC2 chair.

Request 4

Event: CARI and ICTAC conferences in Stellenbosch, South Africa, October 2018.
Both conferences specifically aim at developing countries: CARI the African Conference on Research in Computer Science, (<http://www.cari-info.org/>), and ICTAC, the International Colloquium on Theoretical Aspects of Computing, which was originally an UNU-sponsored event but has developed into a long-running conference series that has typically taken place in developing countries (often in South-East Asia, see <http://dblp.uni-trier.de/db/conf/ictac/index.html>)

Amount requested: 15.000 euros

Rationale: allow us to fully reimburse all African participants and international invited speakers.

Request sent by:

- Bruce Watson (CARI General Chair): member IFIP WG 2.4, South African representative to TC2
- Helene Kirchner (CARI Steering committee): member IFIP WG 1.6
- Bernd Fischer (ICTAC General Chair): member IFIP WG 2.11
- Tarmo Uustalu (ICTAC PC Chair): member IFIP WG 2.1
-

Endorsed by:

- Michael Goedicke, TC2 Chair,
- Mike Hinchey, IFIP President

Funding Proposal for I-2018

Event	Purpose	Amount Requested	Funding approved	Grants Reimbursed
PhD-seminar in Thailand	to support Erich Neuhold travel expenses	Not specified	1.500 euros	Event postponed due to health problems of one instructor
OCCE 2018	to cover doctoral student from developing countries travel expenses	3.000 euros	2.000 euros	Rasha Al Okaily 500 euros Marisol Rodriguez 329.30 euros Rasha Essam 500 euros
WCC 2018	to cover PhD student and keynote from a developing country travel expenses	3.000 euros	3.000 euros	

CARI and ICTAC 2018	to fully reimburse all African participants and international invited speakers	15.000 euros	2.500 euros	
TOTAL			9.000 euros	

Funding Requests for II-2018:

Request 1

Event: TFC2018 “Towards Automated Inventions for Smart Industries” www.tfc2018.fr It will take place in Strasbourg (France), 29th–31st October 2018. The Conference is jointly organized by the National Institute of Applied Sciences of Strasbourg (INSA de Strasbourg), ETRIA – The European TRIZ association and is sponsored by IFIP.

Amount requested: not specified

Rationale: They plan to use of the grant for PhD developing countries students to travel from their country of origin the Strasbourg – France

Request sent by:

Denis Cavallucci, WG5.4 on Computer Aided Innovation (Tadeusz Czachorski, TC5 chair, supports the initiative)

Event	Purpose	Amount Requested	Funding approved	Grants Reimbursed
TFC2018	to cover PhD students from developing countries travel expenses	Not specified	3.000 euros	
TOTAL			3.000 euros	

8.3 Finance Committee

(Franz Rammig, Chair of the Finance Committee)

Report on a meeting of the Finance Committee prior to the General Assembly.

Present: Max Bramer, Franz Rammig (Chair), Igor Grebennik, Eduard Dundler (ex officio)

Concerning its charter FC has the following duties:

1. To formulate policies for the sound management of IFIP finances and to propose such policies to the appropriate IFIP body for approval. Policy areas of interest include, but are not limited to, the following:

- *dues, royalties and conference surpluses*
- *grants and loans*
- *investments*
- *cash management*

After installing a reformed fee structure, the present policies are considered by FC to be adequate and useful. No alternations are proposed by FC.

2. To issue guidelines and/or to establish procedures as necessary to carry out approved policies.

FC considers the present guidelines and procedures to be adequate and useful. At the moment, no alternations are proposed by FC. However, FC is concerned about delayed delivery of input data by budget holders. FC emphatically asks all budget holders to provide the necessary data in strict timely manner.

3. To analyze and evaluate IFIP's financial condition as necessary to ensure that policies are being followed, and to propose changes in policy when appropriate.

3.1. Comments on reports Treas 3 and Treas 4:

We have received Treas 3 and Treas 4 from Eduard Dundler. They give a very good overview of the financial situation in IFIP. FC is concerned about the structural financial problem of IFIP to be currently unable to cover its expenses from regular income. It can be observed that income from membership dues is less than budgeted by an amount of €13K while income from royalties and events is expected to be €40K higher, which results in an increase by €27K of total income. At the same time, the expenses tend to become much higher than budgeted. This results mainly from an increase of administrative support costs and projects. On the other hand, the expenses for TCs (which on the other hand increased their contribution to the income) are expected to be lower than budgeted. Unfortunately, the resulting operational loss of about €145K (€45K higher than budgeted) can only partially be compensated by return on portfolio.

3.2 Comments on the report from the Treasurer:

The Treasurer summarizes: "For the calendar year 2017 IFIP budgeted to return an operating loss (i.e. excluding portfolio) of €239,348. That the outcome has been better (€85.965) is mainly due to savings in administration, and events expenses being lower. Membership dues were approximately €7.000 lower than budgeted. On the positive side, royalties from publications are up, as are proceeds from activities (though these are below budget). Total income for the year stands at a little over

€300k – an increase on 2016, but 10k below budget. This results in an operating loss of ~€88.9k.”

Concerning the portfolio he summarizes: "The portfolio has shown a modest growth (an overall net increase in total portfolio value, taking account of investment performance and cash withdrawals) of some €54.136 against the 2016 position. Overall, the portfolio funds increased during 2017 by €192.136. During the year, portfolio withdrawals (to cover our marketing contract and to ensure orderly cash flow through the year) amounted to €138.000.”

FC observes that the final balance for FY 2017 turned out to be better than forecasted in the budget. FC is also pleased that the portfolio balance was nearly stable, even with a modest net growth in 2017.

Looking at Technical Committee income and expenditure, we note that the first half of 2018 allows to expect a better balance than budgeted.

Concerning item 2 - summary conclusions.

IFIP financial performance (operating 2018): The operational deficit is expected to be substantially higher than 2017 (estimated 2018: 144,618 € versus actual 2017: 88,980 €). Fortunately, we have a reasonably consistent portfolio performance and a healthy portfolio. This reduces the forecasted grand total to a loss of “only” 91.618 €. Unfortunately, this loss is substantial, especially compared to the 2017 profit of 85.965 €.

At General Assembly in 2017, we set a 2018 budget with a 99,170 € operational deficit, or a grand total deficit of 127.1705 €. Our current forecast for 2018 is to do worse than that, perhaps an operational deficit of about 144,618K€. Only due to a positive return on portfolio, the grand total loss is expected to be 91.618 K€.

We have a structural financial problem; our income is not enough to cover our costs without help from our portfolio.

The 2019 budget is based on conservative estimations with a certain decrease of income with respect to the 2018 budget (and even lower in comparison to the estimated income in 2018). The budgeted income for 2019 is less than the estimated one for 2018 mostly with respect to income from activities. The reason seems to be that in 2019 there will be no WCC. The expenses budgeted for 2019 (430.075€) are slightly higher than the budgeted expenses for 2018 (393.820€) but on the other hand slightly lower than the estimated ones for 2018 (458.690€). This results mainly from much lower expenses for projects (4.000€ in contrast to 75.000€ estimated for 2018). On the other hand in 2019 the expenses for TCs (91.774€) are budgeted much higher than the estimated amount in 2018 (54.000€). Together with some minor derivations in other positions, these adjustments result in an operational deficit in the range of 2018 (2019 budget: 149.319 € versus 99.170 € budgeted for 2018 or 144.618 € estimated for 2018). Due to an optimistic forecast concerning return from portfolio, the 2019 budget results in a grand total deficit of 27.319 € compared to a 2018 budgeted grand total deficit of 127.170 € or estimated one of 91.618 €. In addition to the Treasurer’s proposal concerning the 2019 budget, FC proposes to include a project “Strategy” with an amount of 50K€. This project should be financed from portfolio.

FC makes the recommendation to GA that:

- GA discharges the Treasurer and the EC for fiscal year 2017

- GA accepts the Auditors' report for 2017
- GA adopts the Treasurer's recommendations regarding the proposed budget for 2019 plus a 50K€ position for a "Strategy" project.

4. To encourage and facilitate the use of external financing support for IFIP activities.

No concrete plans concerning this aspect have been discussed by FC.

5. To review IFIP's dues structure at no less than 3-year intervals, and to propose changes in a timely manner for General Assembly approval.

FC makes the proposal to GA to keep the fee structure as installed by GA 2017.

6. To propose the amount to be set aside each year for the IFIP Development Fund.

As already mentioned above, we have a structural financial problem; our income is not enough to cover our costs without help from our portfolio. Ideally we would be growing our portfolio above inflation, we are not quite up to that at present. FC recognizes that under the present condition on the financial market satisfactory interests cannot be achieved when following a conservative investment policy. FC supports the Treasurer's strategy to continue with such a conservative strategy.

8.4 Membership and Marketing Committee

(Chair of the Membership and Marketing Committee, Max Bramer)

The Membership and Marketing Committee is a new Standing Committee established by the General Assembly at its September 2017 meeting in Colombo, Sri Lanka. I was subsequently invited by the President to act as the Committee's first Chair. The other members are as follows:

Declan Brady, IFIP Hon. Treasurer
Wouter Bronsgeest, The Netherlands
Eduard Dundler, IFIP General Secretary
Elizabeth Eastwood, New Zealand
Igor Grebennik, Ukraine
Gabriela Marin Raventos, CLEI
Sanjay Mohapatra, India
Kai Rannenberg, Germany

I see the need to retain members and recruit new ones as one of the most pressing and important challenges facing IFIP. The more members there are in a Federation such as IFIP, the more beneficial the grouping will be for each of the members and the more influence it will have. By contrast a falling membership is likely to have the opposite effect. Thus, this new Committee has a most important task.

Progress since the 2017 General Assembly

- A new website aimed at promoting the Federation to visitors has been developed and became live shortly after the Board meeting in Dublin. It can be accessed at either ifip2.org or ifip.org/visitors.
- The main ifip.org website, which focuses on providing information and facilities for members, has been given a new look, with a home page focussed more directly on membership and with some additional pages added.
- A separate mini-website collecting together information about membership has been created at ifip.org/membership. This gives information on the different types of membership, a list of current members, membership fees (including a calculator of the membership fee for every country recognised by the UN) and an online application form.
- The three websites: visitors, members and membership are fully integrated and use information from the same database.
- As a way of simplifying the process of applying for membership, an online membership application processing system has been created on the ifip.org website.
- A valuable spinoff from the development of the new visitors' website is a professionally-produced video introducing IFIP and its many activities worldwide. This lasts for just under three minutes and is available on YouTube at https://www.youtube.com/watch?v=w_ORI9mLH0U. It can also be accessed directly from the visitors' and the members' websites. Subtitles have been added to the video and can be turned on if required (and the sound turned off) so it can be played in noisy environments. The video has been drawn to the attention of event organisers and it is hoped that it will be used to promote the Federation at IFIP events. Three short video testimonials have also been produced for use in promoting membership.
- A Membership Benefits leaflet has been produced and circulated to all member societies and all General Assembly members, plus the contact people for all

IFIP events approved since the 2017 GA. Further copies are obtainable from the General Secretary. The leaflet takes the form of a double-sided A4 sheet folded into a four-page A5 booklet printed on light card. A copy in PDF format is also available for downloading from the home page of the website.

- A Member Societies leaflet written by Liz Eastwood, the Chair of MSA, has recently been produced to answer the question 'What do Members of IFIP Societies Do?' Copies will be given to all delegates at WCC 2018 and the 2018 General Assembly.
- A simple one-page A4 flier has recently been produced entitled 'What is IFIP?'. It gives very basic information about the Federation, the URL for the Visitors' website and also a URL to use to subscribe to IFIP Insights. Copies will be given to all delegates at WCC 2018 and the 2018 General Assembly. The aim is that copies should be given to all delegates at IFIP events in future to increase awareness of the Federation and what it does.
- The 10% discount scheme for payment of membership fees before the end of March 2018 and the 15% discount scheme for three-year memberships from 2018-2020, which were both approved at the 2017 General Assembly were introduced. However, these met with only limited success and should not be extended.
- Changes to the online event application and application processing systems have been made to put into the agreement that event organisers make with IFIP the policy agreed at the 2017 GA that all IFIP events must offer a discount of at least 10% on their registration fees to all individual members of IFIP member societies and all members of Technical Committees and Working Groups. All event organisers have been contacted directly to ensure they are aware of the new policy and also to request that they show the promotional video at their events, as a way of encouraging new membership.
- IFIP Insights continued to appear as a free monthly publication, circulated by email, which contains news from IFIP member societies, Technical Committees and the ICT sector around the world.
- A number of media releases have also appeared, produced by Quantum Values to publicise the World Computer Congress and other important aspects of the Federation's work.

Future Plans

(1) Our use of social media, press releases etc. will continue into the future but I would like our member societies to take a much more active role in providing material, as they already do for the three-monthly publication IFIP News. All Member Societies, Technical Committees and Working Groups, as well as Officers and Councillors need to be encouraged to contribute material on a regular basis. A straightforward process needs to be established for doing this and for contributions to be made in a standard format.

(2) As electronic communication of all kinds becomes increasingly pervasive worldwide its effectiveness as a means of drawing organisations, events etc to attention is correspondingly declining. In my view we need to produce more publications and other artefacts in physical form to complement our extensive and growing use of websites, email and social media.

I would now like to produce more leaflets in the same style as the Membership Benefits and Member Societies ones in a uniform series, each of them printed on light card as a double-sided A4 sheet folded to form a four-page A5 leaflet. Some possible topics are as follows (approximate titles):

- Benefits of Organising an IFIP Event
- What do Technical Committees and Working Groups do?
- How can I join a Technical Committee or a Working Group?
- What do Domain Committees do?
- What is IP3?
- What is InterYit?
- What does the IFIP Digital Equity Committee do?
- What does the IFIP International Committee do?
- What does IFIP publish?

Much of this information can be extracted from the website (although not always in a 'focussed' form) but it is unlikely that officials of either current or potential new member societies spend much time studying either our website or our social media and it may be helpful to draw what we do to their attention in a more tangible and durable form. A series of leaflets would also be a good way of informing the delegates at IFIP events, who come from all over the world, about what we do and hopefully will lead to enquiries about membership. The World Computer Congress and WITFOR series are particularly important promotional opportunities.

I would appreciate any suggestions for additions to the above list of leaflets and – even more – any offers to draft the content of one. I see the highest priority as being the first one: 'Benefits of Organising an IFIP Event'. This is a topic that is often raised and it would be valuable to have a succinct set of words that we can all use.

(3) Since the new membership category 'National Member at Large' was created there has been only one application, even though there must be many possible candidates in the countries where we already have Country Representative Members. If every national society member encouraged one other society in the same country to apply for membership our total membership could rapidly rise.

(4) In general, I believe we need to be much more proactive over recruitment of new member societies, rather than simply waiting for applications to come in. I would like to draw up a list of between five and ten 'prospects', i.e. organisations that should be approached in the next 12 months (preferably sooner) as possible new members, with a reasonable chance of success. I would appreciate any suggestions for societies or organisations of all kinds that should be on this list. Having drawn up a 'prospects list' we need to consider how best each one should be approached. General Assembly members have a considerable number of contacts worldwide. At present the work of visiting and talking to potential members almost always falls on the President, but it is much too large a task for any one individual and I would like to see all GA members, especially the elected Officers and Councillors more actively involved in this task.

8.5 Nominations Committee

(Chair of the Nominations Committee, A Min Tjoa)

At the General Assembly (GA) 2018 in Poznan (Poland) there will be the election of IFIP officers. The NC Report contains all information that is necessary for the election. Beside the vacancies the NC informs the GA about the status of nominations by the members until 13th of August 2018.

1. *President Elect*

There is one **vacancy for IFIP President Elect** position. The current post holder, Mike Hinchey is eligible to be re-nominated, as he has completed the first full term of his office.

Nominations:

Mike Hinchey is fulfilling the criterion “supported by four Full or Ex-officio Members”

According IFIP’s S&B 6.3.1 / 2 there is a ballot for the election of the President Elect. As there is a single candidate for this post the candidate will not be elected if he receives less than 50% of the valid votes.

Following the ballot **Mike Hinchey** has been elected as IFIP President for 2019 – 2022.

2. *Honorary Secretary Elect*

There is one **vacancy for Honorary Secretary Elect** position. The current post holder, A Min Tjoa is not eligible to be re-nominated, as he has completed the second full term of his office.

Nominations

Max Bramer is fulfilling the criterion “supported by four Full or Ex-officio Members”.

Yasas Abeywickrama is fulfilling the criterion “supported by four Full or Ex-officio Members”.

According IFIP’s S&B 6.3.1 / 2 there is a ballot for the election of the Honorary Secretary.

Following the ballot **Max Bramer** has been elected as Honorary Secretary for 2019 – 2022.

3. *Vice President (VP):*

There is one **vacancy for a Vice President (VP)** position.

One of the current post holders, Kai Rannenberg is eligible to be re-nominated, as he has completed the first full term of his office. He expressed that he intends to serve IFIP as VP for one more term.

Nominations

Kai Rannenberg is fulfilling the criterion “supported by four Full or Ex-officio Members”.

According IFIP’s S&B 6.3.1 a secret paper ballot will be held, except in the case of elections for Vice-Presidents and Councillors when the number of candidates is equal to or less than the number of vacancies.

As the number of nominees is equal the number of vacancies **Kai Rannenber** has been **declared as elected unopposed** for 2018 – 2021.

4. Councillors

There is **one vacancy for councillors** to be **nominated** and **elected by GA**. As the present councillor Yasas Abeywickrama has completed his first term as councillor; he is eligible to be nominated for a second term. He has expressed his intention to serve IFIP as Councillor for one more term.

Nominations:

Yasas Abeywickrama is fulfilling the criterion “supported by four Full or Ex-officio Members”.

According IFIP’s S&B 6.3.1 a secret paper ballot will be held, except in the case of elections for Vice-Presidents and Councillors when the number of candidates is equal to or less than the number of vacancies.

As the number of nominees is equal the number of vacancies **Yasas Abeywickrama** has been **declared as elected unopposed** for 2018 – 2021.

There is also **one vacancy for a councillor** who is **appointed** by the IFIP President. The present councillor Raimundo Macedo is completing his first full term and is willing to serve for a second term (2018 – 2021).

Raimundo Macedo has been appointed by the President to serve for a second term (2018 – 2021).

8.6 Publications Committee

(Chair of Publications Committee Kai Rannenber)

Revision and update of the IFIP Digital Library

The implementation of the new IFIP DL provided as a professional service by Inria is progressing further. The current status can be viewed at <https://hal.inria.fr/IFIP> . All IFIP publications by Springer from 2010 to 2017 are in the DL except for one volume that does not follow the standard conventions and requires special processing. In addition most of the 2018 proceedings that have been published are included.

We have the first two eCollection (non-Springer) volumes in the DL. One can see it from the home page. It also is in the collection for its TC and events.

For the most recent publications (for which Springer has the exclusive publication and embargo rights for three years until author copies published) the tables of contents are given. There is a link to the author manuscript and a link to the paper in SpringerLink. So the author manuscript can be obtained by clicking on its link, and the publication copy of the paper can be obtained by clicking on its link (designated "DOI"). The publication version link will be active as soon as the proceedings volume is added to the DL, so the paper will be accessible to those with a subscription to SpringerLink, and then it will be accessible to the public four years after publication. The author manuscript link will not be active until three years after publication.

For all downloadable papers the numbers of record views and document downloads are given. <https://hal.inria.fr/IFIP-AICT-362/hal-00669799> also documents an example of the interface to Altmetric coverage with e.g. Mendeley and News references. Several options for search are implemented and also a function "Cited literature" to extract bibliographies from articles automatically.

We are working with Inria to smoothen the process of integrating proceedings, especially non-Springer ones.

At the same time thanks to the volunteer efforts of TC 6 and especially Aiko Pras we continue to have many IFIP publications (mainly proceedings from 2005 till 2012) available for free access already now at <http://dl.ifip.org/> . This is not limited to TC 6 publications and holds for publications three years old and older.

Open Access to IFIP Publications

Open Access to IFIP Publications is currently realized via three channels, as documented on

www.ifip.org/index.php?option=com_content&task=view&id=219&Itemid=564 :

1) The upcoming IFIP Digital Library (<https://hal.inria.fr/IFIP/>), which currently has the author's files of IFIP Springer publications (AICT, LNCS, LNBIP) from 2015 (as applicable) back to 2010. It also has the references to such publications up to and including 2017.

2) Springer Link (<https://link.springer.com>) for IFIP Springer publications (AICT, LNCS, LNBIP) with free access for all articles 4 years old and older, almost complete back till 2005 and on top many publications back till 1995, when Kluwer became the official IFIP publisher. NB: Not the "books" are free, but the individual articles. So don't get confused by the fact that there is a lock on the book download. Just move on to the table of contents and download the articles individually.

3) The current IFIP Digital Library (at <http://dl.ifip.org/>) for some non-Springer publications and also Springer publications between 2005 and 2012.

Combined, (almost) all IFIP works published with Springer from ca. 2005 to 3 years old are available for open and free access (one way or the other). In addition many proceedings back till 1995 when Kluwer Academic Publishers (KAP) became the official IFIP publisher are available (NB.: KAP, the then official IFIP publisher, was merged into Springer back in 2004).

Publications Agreement with Springer

The current contract with Springer is valid since January 01, 2015 and until December 31, 2019. It is then automatically renewed for a period of five years unless it is terminated by either party by supplying to the other party written notice of intent to terminate the agreement nine months in advance of the termination date.

Since spring 2018 Springer is presenting a new version of the “Consent to Publish” form that authors need to sign, when they want to publish in IFP Springer proceedings. This has been checked and agreed by the Publication Committee.

IFIP’s flagship line of publications is IFIP Advances in Information and Communication Technology (IFIP AICT, <http://www.springer.com/series/6102>). Besides the main line IFIP AICT currently has two active sub-lines: Surveys and Tutorials. In addition several IFIP publications are published as part of LNBIP and LNCS. In 2017 altogether 48 volumes were published (after 49 in 2016). Income for 2017 has been 60.938 EUR after 51.942 EUR for 2016, which is not only an increase by 17.3 %, but also the highest income and the first increase since 2013 (when income had increased by 23,8 % to 76.050 EUR). So the negative trend in income since 2014 is reversed. For 2018 ca. 50 volumes are envisaged, maybe some more due to the IFIP WCC, but again this depends on the number of post-conference proceedings which might realize only in 2019.

As of 2017 Springer has started inserting society logos on the SpringerLink pages of proceedings resulting from their cooperation with societies. Therefore the IFIP-logo is being displayed on the bottom of the sections “About these proceedings” (Bibliographic information) and “About this paper” of all IFIP AICT, IFIP LNCS and IFIP LNBIP volumes. Authors and editors can now add their ORCID (Open Researcher and Contributor ID) to their name in all IFIP-AICT proceedings papers.

Access to IFIP publications with Springer (AICT, LNBIP, and LNCS) is as follows:

- All IFIP publications in SpringerLink are becoming cost-free accessible four years after publication. This holds for as long as IFIP has a contract with Springer. It covers the publications since the contract between IFIP and Chapman and Hall (and later Kluwer) back in 1996. So many more of the earlier IFIP publications are now available for free as long as this contract holds. (NB: This is not to be confused with the embargo period for the IFIP Digital Library. After 3 years IFIP can put the author’s versions of IFIP publications published with Springer into the IFIP Digital Library.)
- “Retrodigitized” proceedings are opened after 3 years instead of 4 years. As Springer had retrodigitized many of the older proceedings in 2013, almost all became available during 2016.
- Publications published under the current contract (i.e. from 2015 till end of 2019) will be accessible cost-free also after the end of any contract with Springer.

The interaction between a proceedings editor and Springer is subject to all procedures established by IFIP for all IFIP publications. In particular, this includes any quality assurance mechanisms established by IFIP. There is a high degree of agreement on quality issues between Springer and IFIP, although some elements in

IFIP's policy had needed explanation. To operationally ease the process of quality assurance the members of the AICT Editorial Board are being informed every time, when Springer has accepted to start the process of publishing proceedings from an event of "their" TC.

The relation between the IFIP AICT Editorial Board members and the respective TCs is now made explicit both on the Springer IFIP AICT website and the AICT book front matter. The IFIP AICT website also links to detailed information about the 13 series editors organized by the IFIP TC.

Springer is more interested in topically targeted publications than in publications that cover the whole of informatics or computer science.

An IFIP event whose proceedings are published by Springer can receive 49 print or electronic copies of the proceedings free of charge except for shipping costs. However, it should be noted, that Springer is moving to the option of temporary, normally four weeks, free access to the publication on SpringerLink instead of this option, so at some point in the future there may be only the option to receive temporary free access to the proceedings in SpringerLink.

Springer is currently offering the free use of the iThenticate tool for plagiarism check as a part of the Springer proceedings publication package. The tool is offered on demand to all events publishing with Springer, but as it has costs, Springer does not publicize this widely (also, 90% of the events seem to not really need this). The software checks everything registered at CrossRef (whatever has a DOI – so all serious publications) plus a lot of cites on the web. The tool is not perfect, but to Springer's knowledge the best available.

There are also general trends in Springer's strategies that are worthwhile to note:

- Springer plans to offer to IFIP a special tariff structure for IFIP events going for immediate open access publications with Springer (currently the fees are 37 EUR/page, if a whole volume is made open access and 42 EU/page, if single articles are made open access). 2 WGs published one volume each under the current tariff for Springer open access publications.
- Publications on SpringerLink are moving from pdf to an html/e-book compatible format. Actually in 2017 Springer has been publishing everything except one volume (where the editor insisted on camera-ready pdf publication) in full-text HTML (and pdf and EPUB).
- Proceedings can be made available to an event for four weeks around the event dates, normally two weeks prior and two weeks following the event.
- All printing is by "print on demand".
- For institutions who purchased one or more eBook collections from Springer and their people there is a lower quality, black-white only printing option, called "MyCopy" for 24.95 USD/EUR (depending on shipping address) per copy including shipping & handling excluding local VAT/Sales tax where applicable. Details including a list of the ca. 30 countries, where this service is available, can be found on <https://www.springernature.com/de/librarians/products/product-types/books/my-copy>.

Please let the PC know any issues that you see, so that they can be discussed and considered in the work with Springer and for future negotiations.

IFIP Select: An "e-journal" comprising "best" papers from IFIP proceedings

The purpose of initiating IFIP Select is to obtain a better outreach and diffusion of some of the excellent research done in within IFIP TCs and WGs. By doing that and adding some information & discussion on the practice contribution we make the

research produced within IFIP available to a much larger audience of national computer societies. IFIP Select is to be a more or less regular compendium of papers from IFIP proceedings that could be of interest to an audience, especially member societies, who could distribute that compendium and see value in it justifying the IFIP membership fee. “Best” is “Best for member societies”, i.e. more overview papers than very special ones.

The concept especially includes asking the authors of the selected papers to produce a “cover paper” of 2-3 pages that describes the related scientific paper and its relevance for a more mainstream audience, especially for practitioners and other “typical” members of member societies.

IFIP Select is technically to be established as a collection of links to the IFIP DL or Springer Link. An agreement was reached with Springer that existing papers with a 2-3 page addition discussing and clarifying relevance to computer society members can be published in such a journal with cost-free access. It is being negotiated how long the papers will be made available (at least 15 months to cover for 2 issues per year plus some safety margin in case a new issues gets delayed).

Editorial process

The TC Chairs once a year appoint two published papers from the last 18 months as the best from their TC.

The Editor-in-Chief contacts the authors and asks them to write and add a 2-3 page “How can I apply this? – The practice contribution” aimed at the thousands of members of national and regional Computer Societies (that are members of IFIP).

When received this new addition is reviewed by a small Editorial Board (ideally 2 people) appointed by IFIP Publications Committee consisting of representatives from National Societies with a reasonable command of research.

Logistics

The journal is to be published electronically 2-3 times a year starting with an inaugural issue in 2018.

In each issue of the journal there are to be 5-7 papers. This means that each TC on average will have 1.5 best papers published per year.

Operations till now

Jan Pries-Heje – former Chair of TC 8 – has agreed to act as Editor-in-Chief for the first 3 years. Elizabeth Eastwood has agreed to review the “cover papers” from the perspective of a national computer society representative

The first call for nominations went out to all TC chairs in March 2018. Only one nomination – too little to move forward – was received from the TC Chairs in April-May. On July 17 a new call and reminder was send to all TC Chairs. This time six nominations from four TCs were received by the deadline set at 31 August 2018. It was then decided to move on and pursue the publishing of the first issue.

Plans

Continued development of the IFIP DL and the “IFIP eCollection” series

Aiming for an “IFIP eCollection” series as the primary series for proceedings not published by Springer a process is being developed to integrate the respective articles (including proceedings with an IFIP ISBN) into the IFIP DL. Several publications are being used for test runs. Tools are needed to support the editors of

non-Springer proceedings for those tasks that for Springer proceedings are executed by Springer. This holds especially for the transfer of files out of paper reviewing systems and the production of the metadata needed for the DL. One option is the Sciencesconf conference management system that Inria provides. However, at least four different systems are being used by the several organizers of TC-6 conferences. A related step is to transfer the e-only proceedings that are currently in Aiko Pras' library into the new IFIP DL.

In view of restricted resources in Inria the opening of the IFIP DL towards non-Springer proceedings has got priority over the bibliographic processing of Springer IFIP proceedings older than 2010.

There are also some open questions being clarified with regard to IFIP's possibilities and impossibilities for (usually old) papers where the copyright is not clear.

Quality assurance for IFIP publications

Work is underway to implement quality assurance for all IFIP publications by an IFIP editorial board. Feedback from the Technical Assembly on the proposal for regular quality assurance process (that had originally been developed within the Technical Assembly) was mixed. Some TCs like the process. A few TCs don't see any need for any formalized process, as one should trust the well-chosen Programme Committee chairs. Some TCs are insecure about the effort for the process. One TC is now trialling the proposed process reporting good experiences.

For the "IFIP eCollection" series quality assurance will also need to cover those aspects that with Springer publications Springer is taking care of (e.g. compliance with the IFIP templates and proper lists of references). The respective requirements procedures are now being discussed with the IFIP TA.

Development of IFIP AICT

The intention remains to involve the AICT Editorial Board, along with the PC, in considering how to make AICT a stronger series, using sub-lines to distinguish between different types of events and publications. A new sub-line "Festschriften" (honouring individual researchers and their scientific work or they institutions or fields) will be established.

IFIP Select: An "e-journal" comprising "best" papers from IFIP proceedings

The plan is now that authors will be contacted early September. Hopefully they can then deliver the 2-3 page addition to their paper within 3-5 weeks. A small Editorial Board consisting of Jan Pries-Heje and New Zealand National Representative Elizabeth Davies will then work with the authors until a satisfactory quality has been achieved; the main goal being that the presentation of the research should be useful and give insight to a normal member of a National Computer Society. The first issue of IFIP Select is expected to appear before the end of the year.

Then the process is to continue. Further selected papers are to be nominated by TC Chairs and will be processed. The timing will be defined based on the experiences with the first round.

8.7 Statutes and Bylaws Committee

(Chair of the S&B Committee, Max Bramer)

The following proposals for changes were approved by the General Assembly.

Statute/ Bylaw	Proposed Change	Reason for Change
Bylaw 2.8 (Financial obligation during the year of admission)	CHANGE title to 'Date of Admission and Liability for Dues for New Members'. REPLACE all by the following: (a) Associate Members. The membership will begin immediately after approval is given by the General Assembly. (b) Country Representative Members and Members at Large. Once a membership application has been approved the General Secretary will send the organisation concerned an invoice for dues payable from the start of the following calendar month up to the end of the year for an amount pro rata to the annual rate. Membership will start on payment of this initial invoice. In the case of a membership application approved after September 1 st the organisation will be given the option of having its membership start on January 1 st of the following year, again on payment of the initial invoice.	To simplify and clarify financial arrangements
Bylaw 2.9 (NEW)	Add new Bylaw: "Liability for Dues", with text "Membership dues for all Country Representative Members and Members at Large become payable on January 1 st each year for the year ahead. The Secretariat will issue invoices to all members around this date. Dues should be paid within one calendar month of the date of the invoice. A member society will only be entitled to vote in the General Assembly (including using the electronic voting system) once the dues for the year have been paid."	To clarify when payments need to be made
Bylaws 2.2.4, 2.3.4, 2.4.4 (Formal Admission)	Delete all and renumber Bylaw 2.2.5 as 2.2.4	Made obsolete by change to Bylaw 2.8
Statute 4.4.1 (Country Representa tive Member and Member at Large)	First paragraph. Add additional bullet point: "For non-payment of dues, following a vote by the Executive Committee."	To clarify obligation to pay dues
	Delete final sentence "A member whose membership ends for this reason cannot apply again [etc]".	To remove unnecessarily punitive regulation
Statute 4.1.2 (Member at Large)	Add at end "An application for National Member at Large will only be considered if the country concerned already has a Country Representative Member."	To clarify role of MAL
Statute 4.1.3 (Associate Member)	Replace all by: "Scientific societies, professional societies, government bodies, companies and other organisations with a professional interest in Information and Communication Technology can apply to be considered for Associate	To ensure a clear separation between non-

	Membership provided that they would not qualify for admission as Country Representative Members or Members at Large."	due-paying AMs and due-paying CRMs and MALs
Bylaw 2.4.1 (Admission of Associate Members - Eligibility)	Replace all by: "A list of types of organisation that are eligible to be considered for Associate Membership is given in Statute 4.1.3."	To avoid unnecessary repetition
Bylaws 2.2.3 and 2.3.3 (Admission of CRMs/MALs Procedure)	Replace 'send a formal letter to the President. This letter should be accompanied by the following documents in English' by 'apply using the online membership application system on the Federation's website. It will be asked to provide the following document or documents in English'. Delete sentence 'The President shall transmit this letter and the documents to the Admissions Committee'.	To allow for introduction of online system
Bylaw 5 (Awards and Distinctions)	Add new Section 5.5 'Deadlines'. "The deadlines for uploading nominations to the online nomination system given in Bylaws 5.1.2, 5.2.2, 5.3.2 and 5.4.2 shall be interpreted as meaning midnight local time in the country in which the Federation's seat is located."	To avoid possible ambiguity in current wording
Bylaw 3.8 (Electronic Voting outside scheduled meetings)	Final paragraph. Replace 'Statute 5.1.1' by 'Statutes 4.2 and 5.1.1'.	To correct omission in original wording
Bylaw 6.3.3 (Event approval procedure)	<p>Section 2, 'IFIP event' bullet. Replace final two bullets by: "There is an online event approval form in which responsibilities, financial arrangements and other arrangements are agreed. Approval needs to be given by the relevant TC and (if applicable) WG and the Activity Management Board (AMB)."</p> <p>Section 2, 'IFIP joint event' bullet. Replace final bullet by: "Approval needs to be given by the relevant TC and (if applicable) WG and the Activity Management Board (AMB). For flagship events approval by the EC is required".</p> <p>Section 2, 'IFIP sponsored event' bullet. In final bullet, replace "TC Management Team" by "TC" and add "and the Activity Management Board".</p> <p>Section 2, 'IFIP supported event' bullet. Last but one bullet. After "'Supported by TC 1/2/3..'" by Activity Management Board (AMB)' add 'and relevant TC'. After "'Supported by WG 1/2/3..'" replace 'TC Management Team' by 'AMB and the relevant TC and WG'.</p> <p>Section 5. Approval Procedure. Replace all by "Approval of IFIP's involvement in a particular event is given by the appropriate combination of the Activity Management Board (AMB), the Executive Committee (EC), the TC and the WG (see Section 2).</p>	To bring wording into line with the online approval system

	<p>To confirm such approval the IFIP Secretariat must receive a fully completed online event request and each of the bodies responsible for IFIP's involvement in the event (TC, WG etc) must indicate its approval using the online approval system. Approval on behalf of the AMB, a TC or a WG is given by its Chair. In cases where approval by the EC is required, it is given online on the EC's behalf by the AMB Chair following appropriate consultation.</p> <p>Events with approved IFIP involvement are listed in the IFIP Event Calendar, published in the IFIP Newsletter and other publications."</p>	
	<p>Section 8. Procedure for submitting requests. Replace wording by "A request for IFIP involvement in an event must be submitted using the online event approval request form. Submission of the form will prompt a request for the organiser who submits it to print out a paper copy of the form, sign it and send it by post or fax to the IFIP Secretariat.</p>	
	<p>Section 6. Obligations regarding approved events. 'For IFIP' section. At the start of the section add wording: "In the following, the term 'IFIP Responsible Chair' is used to mean the WG Chair for a WG event, the TC Chair for a TC event and the AMB Chair for other events".</p>	<p>To clarify meaning of an undefined term.</p>

The General Assembly endorsed these proposed changes.

9. Domain Committee Reports

9.1 Doman Committee on Internet of Things

(Chair of the IFIP Domain Committee on the Internet of Things, Leon Strous)

After GA 2017, the Domain Committee on the Internet of Things (DC IoT) has focussed on writing a position paper and organizing a multi TC/WG stream on IoT at the WCC 2018.

The position paper is submitted to GA for discussion and approval. The paper will also be discussed during the IoT conference during WCC 2018.

Attracting sufficient papers for a good quality IoT conference was not easy, probably due to the fact that it is a cross domain topic which requires submitters of papers to look beyond their usual communities. We selected 13 papers from 25 submissions. And we have an invited speaker in the person of the president of AOITI, the Alliance for Internet of Things Innovations.

There is already interest from the group to host the next event in the USA.

Membership has slightly expanded from 8 persons (covering IFIP plus 5 TCs) to 13 persons (covering IFIP plus 6 TCs).

Members of DC IoT status 14-08-2018:

- TC 5 Luis M. Camarinha-Matos
- TC 6 Tibor Cinkler
- Augusto Casaca
- Neuman Souza
- TC 9 Gordon Fletcher
- Christina Moertberg
- TC10 Ricardo Reis
- TC11 Damien Sauveron
- TC13 Fabio Paterno
- Marco Winckler
- Carmelo Ardito
- IFIP Leon Strous
- Basie von Solms

First IoT working conference, part of IFIP WCC 2018 Program

Tuesday 18.09

09:30	<ul style="list-style-type: none">• Invited speaker Kees van der Klauw, President of AOITI, The Netherlands The Internet of Things is hardly about technology <i>How it impacts society, business and professions</i> <p>While the Internet of Things is enabled by technological advancements in computing, communications and data storage, the success of its applications will largely depend on non-technical matters. Acceptance of use-cases by end users, trust in systems and organisations and redistribution of value in changing business models are just a few examples. Increasingly those aspects become important design factors in the architecture of IoT.</p>
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	<ul style="list-style-type: none"> • What does that mean for professionals in information technology in the future? • Facilitating Factors for The Implementation of Internet of Things: a Public Sector Perspective, Ott Velsberg, Sweden
11:00	Coffee break
11:30	WCC 2018 Opening
12:00	WCC Keynote Prof. Wil van der Aalst Responsible Data Science in a Dynamic World
13:00	Lunch break
14:30	<ul style="list-style-type: none"> • IFIP Position Paper on IoT – presentation and panel discussion There are many aspects to be looked at when talking about IoT. IFIP contributes to the discussion by investigating what choices can and should be made regarding these various aspects. And by addressing the question what choice various stakeholders should have. IFIP's position on some major questions and choices is presented, followed by a discussion with the participants. Panel members: tbd (from an individual perspective: an ICT professional and a user) (from an organization perspective: representatives from the ICT Industry, a user organization and from an authority / regulator)
16:00	Coffee break
16:30	<ul style="list-style-type: none"> • Strategies for Reducing Power Consumption and Increasing Reliability in IoT, Ricardo Reis, Brazil • An Internet of Things (IoT) Model for Optimising Downtime Management: A Smart Lighting Case Study, Brenda Scholtz, Mando Kapeso and Jean-Paul Van Belle, South Africa • IoT Enabled Process Innovation: Exploring Sensor-based Digital Service Design Through an Information Requirements Framework, Jesper Svensson, Niclas Carlén, August Forsman and Johan Sandberg, Sweden
18:00	End

Wednesday 19.09

09:30	<ul style="list-style-type: none"> • An Internet of Things Based Platform for Real-Time Management of Energy Consumption in Water Resource Recovery Facilities, Mário Nunes, Rita Alves, Augusto Casaca, Pedro Póvoa and José Botelho, Portugal • A New Reconfigurable Architecture with Applications to IoT and Mobile Computing, Amir Masoud Gharehbaghi, Tomohiro Maruoka and Masahiro Fujita, Japan • Unrestricted Sensors: A Hidden Privacy Threat in the Internet of Things, Jacob Kröger, Germany
11:00	Coffee break
11:30	WCC Keynote Dr. Jan Camenisch The Pros and Cons of Blockchain for Privacy
12:30	Lunch break

14:00	<ul style="list-style-type: none"> • Issues in Implementing a Data Integration Platform for Electric Vehicles using the Internet of Things, Martin Smuts, Brenda Scholtz and Janet Wesson, South Africa • Sailing around IoT Roadblocks: Container Shipping 3.0 for Maersk, Rasmus Ulslev Pedersen, Denmark • Working with IoT - A Case Study Detailing Workplace Digitalization Through IoT System Adoption, Viktor Mähler and Ulrika Holmström Westergren, Sweden
15:30	Coffee break
16:00	<ul style="list-style-type: none"> • Opportunities for the Internet of Things in the Water, Sanitation and Hygiene Domain, Paula Kotzé and Louis Coetzee, South Africa • Internet of Things: The present status, future impacts and challenges in Nigerian Agriculture, Funmilayo Bamigboye and Emmanuel Ademola, Nigeria • IoTutor: How Cognitive Computing Can Be Applied to Internet of Things Education, Suejb Memeti, Sabri Pllana, Mexhid Ferati, Arianit Kurti and Ilir Jusufi, Sweden
17:30	End

10. Assembly Reports

10.1 Member Societies Assembly

(Liz Eastwood, Chair of the Member Societies Assembly)

IFIP Member Societies Assembly Meeting 2018, 22 September Poznan, Poland Report to General Assembly

Attendees

MSA Representatives:

- Elizabeth Eastwood, New Zealand - Chair
- Max Bramer, UK
- Erich Neuhold, Austria
- Rossouw von Solms (South Africa)
- Yuko Murayama (Japan)
- Gabriela Marin Raventos (CLEI)
- Margaret Harvey (Canada)

Invited Member Representative

- Gerrit van der Veer (ACM)

Apologies:

- Jan Pries-Heje (Denmark)
- Raymond Morel (Switzerland)
- Maria Raffai (Hungary)
- Declan Brady (Ireland)

Agenda

1. Report on the period between ending GA 2018 - Liz Eastwood
2. Summarise Member reports – Liz Eastwood
3. Agree that South Africa present their society at GA 2018
4. Elect a new MSA Chair.
5. 'IFIP Academic Affiliates' proposal – Max Bramer
6. Discuss and Agree two key items/topics to be raised at GA 2018.
7. AOB : Process to enable an appropriate group of 11 MSA participants

1. Progress Update

Liz Eastwood was able to report positive progress on two of the three key issues raised in 2017: the IFIP external-facing Website and the Digital Library.

2. Member Reports

24 reports received this year from Members all of whom have clearly been very active in all areas of IT, and many of these Countries have hosted academic conferences supported by IFIP. A suggestion to publish these reports on the public-facing website was discussed and agreed in principle.

Action: Liz Eastwood to ask the author of a report to authorise IFIP to publish (all of part of their report).

3. Member Society Presentation to GA

The MSA accepted South Africa's offer to present their organisation at the GA Summit.

4. Elect a new MSA Chair

New Zealand has chaired the MSA for 3 years, and Liz Eastwood expressed a preference to stand-down in 2019. Erich Neuhold volunteered to become the next Chair. An agreement was reached to hand over the role during 2019.

5. IFIP Academic Affiliates Proposal – Max Bramer

Max presented a draft proposal to the MSA and the MSA provided feedback. A number of concerns were raised, primarily related to the need for the Member Country organisation to determine which academic institutions would (or would not) add value and which institutions would undermine the role/purpose of the Member Country organisation at IFIP. The question of how to set a fair fee was also discussed.

6. Key concerns and other items to raise at GA Summit Meeting

The MSA are not aware of any trigger/process that enables a current ‘hot topic’ to be addressed properly by IFIP, i.e. to enable IFIP to conduct research and publish a positioning statement. E.g. Blockchain, Drone deliveries. We understand that a Domain Committee would need to be created, but is there a mechanism to initiate a DC?

The MSA would like Member Society Reports to be published on the public-facing Website, conditional upon the approval of each author.

The MSA wishes to encourage the Publications Committee to continue their recent excellent efforts to provide a Digital Library that can be accessed and used by all Members.

The level of participation during 2017-2018 has been disappointing so the MSA agreed to seek volunteers to be co-opted on to the 2018-2019 Assembly.

7. AOB - MSA Membership

Attendees agreed to seek input (ideas and suggestions) from 3 (or more) co-opted Member representatives and continue email communication among MSA members plus co-opted Members.

Action1: Liz Eastwood and Erich Neuhold to accept (or reject) volunteers to be co-opted onto the MSA during 2018-2019.

Action: Liz Eastwood and Erich to draft a new By Law to enable the process of MSA appointments and resignations to be formalised.

10.2 Technical Assembly

(Michael Goedicke, Chair of the Technical Assembly)

Welcome & Introductions

Chair: M. Goedicke

Participating: TC-1 (J. Sakarovitch), TC-2 (J. Nawrocki), TC-3 (S Røsvik), TC-5 (T. Czachorski), TC 7 (F. Tröltzsch), TC-9 (D. Kreps), TC-10 (R. Reis), TC-11 (Y. Murayama as proxy to S Furnell), TC 12 (Ulrich Furbach), TC-13 (P. Palanque)

Agenda:

- 0 Introductions and call to order
- 1 TC reports and WG related issues
- 2 Strategy Process
- 3 TC Membership
- 4 eWaste
- 5 Publications (with PC)
- 6 AOB, Award processes and policies

There was a virtual TA meeting in between (2018-02-23), where the status at the time of TC activities was reported and especially the new WG of TC 12 and the eWaste-activity of TC 9 were initially discussed (see also below).

TC Reports and WG related Issues

The TCs present at the meeting discussed their activities which also can be seen from the individual reports of the TCs available at the IFIP website. In general, the level of activity and engagement is quite high and satisfactory. In many cases it was possible to revitalize dormant WGs. The TA thanks the TC Chairs for their continuing hard work to achieve this goal. During the discussions a number of changes were proposed and unanimously accepted by TA. Thus, these changes are proposed to be accepted by the GA as well.

The following changes were thoroughly discussed and accepted by TA:

- TC 2 proposes to shut down WG 2.12 (*Web Semantics*) joint with TC 12 (see below WG 12.4)
- TC 7 proposes to change the name of WG 7.7 (*Stochastic Optimization*) which should now be *Stochastic Control and Optimization*
- TC 7 proposes a new WG (7.8) on *Non-Linear Optimization*
- TC 7 announces a to propose a new WG (7.9) *Modelling and Control in Mathematical Biology*; this will be discussed further based on a proposal at the next virtual TA meeting in spring 2019
- TC 7 has elected / proposes a new Chair Lukasz Stettner (Polish Academy of Sciences Institute of Mathematics, Warsaw)
- TC 9 proposes to rename WG 9.5 (*Virtuality and Society*) to a more appropriate contemporary name without changing the main thrust of its profile. The actual new name needs more consideration and will be discussed and decided at the next virtual TA meeting in spring 2019, provided a related proposal is circulated beforehand.
- TC 12 proposes to shut down WG 12.4 (*Web Semantics*) joint with TC 2 (WG 2.12). After numerous attempts by both TC Chairs it was impossible to get this WG to work as expected. In general, with only few exceptions, the group was unresponsive and not able to deliver proper reports on group activities.
- TC 12 proposes to shut down WG 12.8 (*Intelligent Bioinformatics and Biomedical Systems*). Again after numerous attempts to establish communication with the WG its officers confirmed that the WG was not able

- to establish the expected activity level of an IFIP WG. Thus, the TC Chair and the WG officers agreed upon the proposal to shut down the WG.
- TC 12 proposes to create a new WG (12.10) on *AI and Cognition*. The possibility to create a joint WG with TC 13 with an appropriately broadened profile was discussed and will be pursued possibly in the future. Alternatively or in addition, a new joint WG on common interests between AI and HCI may be discussed as well.
 - TC 14 proposes to create a new WG (14.10) on *Sound & Music Computing*.

As mentioned above a virtual TA meeting is planned before the next IFIP board meeting in spring 2019 to follow up on the aforementioned topics and issues.

Strategy Process

The TA Chair reported on the development of the strategy process which has been initiated and taken to some stage by the IFIP board. The TA is looking forward to learning how IFIP will be made more attractive for institutions and societies outside IFIP as well as for volunteers to work within IFIP.

TC Membership

This issue has been discussed already at the previous TA under the topic national representatives in TCs. The new approach agreed a year ago has not yet achieved the desired result. The TA chair has been asked to follow this up.

eWaste

The TC 9 Chair presented the most recent version of the proposed IFIP position paper titled *eWaste: taking responsibility*. The paper was distributed beforehand and presented at the meeting. The key statements were discussed and changed according to the discussion in the meeting. This version has been sent to Eduard Dundler for distributing it to the GA for further discussion and decision.

Publications (together with the PC)

Kai Rannenberg and Jan Pries-Heje (together with Jo Turner via Skype) presented the new IFIP select concept. The TC Chairs present at the meeting are all looking forward to this new scheme and it became clear that for a number of issues enough material would be available.

Also, the state of the IFIP digital library including the e-collections which cover non – Springer material in the IFIP DL.

Kai Rannenberg also checked the current membership of the AICT Editorial Board and Jan Pries-Heje pointed out that one can join in to the planning process for the 60 years IFIP jubilee proceedings.

It was felt that the PC did a superb job and TA thanks for the PC's engagement to create these possibilities to have good quality outlets to document IFIP activities.

AOB

There were concerns raised regarding the process and value of the IFIP awards. Especially the anticipated calibration period of the IFIP Fellows' selection raised questions. TA recommends – in addition to what is documented already in the bylaws etc. - to have also provided guidelines on a number of important diversity aspects, not only to vote but discuss the nominees' profile and achievements, and better characterize the value of the fellow awards allowing writing appropriate nominations. Important but minor topics were brought forward as feedback to the nominators and publication of the names of the selection committee members.

The next meeting will be virtual which is planned in Jan/Feb 2019 before the upcoming IFIP Board meeting.

11. World Computer Congress, Poznan, Poland, September 2018



24th IFIP World Computer Congress

Information Processing in an Increasingly Connected World: Opportunities and Threats

September 17-21, 2018, Poznan, Poland

The Congress was to be something more than a regular conference. The “traditional” part of the congress consisted of 11 conferences and workshops focused on selected areas of Information Processing and featured four keynotes:

2018-09-18, **Wil van der Aalst**, RWTH Aachen University, member of Academia Europaea:

Responsible Data Science in a Dynamic World

2018-09-19, **Jan Camenisch**, Dfinity (prev. IBM Zurich), winner of Beckman Award 2018:

The Pros and Cons of Blockchain for Privacy

2018-09-20, **Leslie Valiant**, Harvard University, winner of Turing Award 2010:

What Needs to be Added to Machine Learning?

2018-09-21, **Shamika N. Sirimanne**, UNCTAD, Director for Technology and Logistics:

Harnessing Frontier Technologies for Sustainable Development

The list of conferences and workshops included:

HCC13: IFIP TC9 Human Choice and Computers Conference with invited talk by **Don Gotterbarn**: Identifying the Conscience of the Computing Profession

IFIP SEC 2018: 33rd IFIP TC-11 International Conference on Information Security and Privacy Protection with invited talk by

Krystian Matusiewicz: Cryptographic failures: how and why they happen

WISE 11: IFIP World Conference on Information Security Education

Moira de Roche: Trust and the Duty of Care

IFIP ICEC'18: International Conference on Entertainment Computing with invited talks by:

Ellen Yi-Luen Do: From Design Computing to Creating Unique Technologies for Everyone

Aisling Kelliher: Aspirational Cyber Human Systems

Nikolay Nikolov: AR and VR Near You

CONFENIS 2018: WG 8.9 International Conference on Research and Practical Issues of Enterprise Information Systems

HCEE'18: IFIP WG 9.7 Workshop on Histories of Computing in Eastern Europe with invited talks by:

Dermot Turing: Did Alan Turing see an Enigma machine at Bletchley Park?

Marek Grajek: How the Poles Broke Enigma

IFIP Internet of Things Conference with invited talk by

Kees van der Klauw: The Internet of Things is hardly about technology: How it impacts society, business and professions

ISCIS 2018: 32nd International Symposium on Computer and Information Sciences with invited talks:

Erol Gelenbe: How better balance the requirements of energy costs and quality of service in computer and communication systems

Wojciech Cellary: The impact of emerging information technologies on persons' privacy

ITDRR-2018: 3rd IFIP Conference on IT in Disaster Risk Reduction

IP3 Application of Skills Frameworks to IT Professional Practice

SemBDM: IFIP WG 2.6 Conference on Semantics in Big Data Management

BDAS 2018: Beyond Databases, Architectures and Structures with invited talks by:

Ralf-Detlef Kutsche: Why Models (NOT Data) are the 'gold of the information age'!

Dave Novick: A Peek into the Evolution of Security Features at Intel. A Brief and Reflective Journey

IT Research IT Research Workshop (co-operation business-research) with invited talks by:

Michał Bodziony, IBM Poland: Optimisation of Extraction-transformation-loading (ETL)

Hagop Boghazdeklian, Carmine Paolino, OLX: Fine-grained classification

Krzysztof Krawiec and **Mikołaj Morzy,** Poznan University of Technology: The Promise of Applied ML. Expectations and Reality

Jacek Mańdziuk, Warsaw University of Technology: Vehicle Routing Problem - problem formulations, solution methods, challenges (partnered by Future Processing)

Paweł Pyszlak, Roche Global IT Solution Centre: IT Challenges in Healthcare

Mirosław Staroń, University of Gothenburg: Action Research in Software Engineering - Experiences from Metrics Research

Marek Zmuda and **Mariusz Oriol,** Intel Technology Poland: The Challenges of Modern Data Centers

ADS'18: Applied Data Science with invited talk by

Andrey Vykhodtsev, Microsoft: AI Case Studies

Detailed program is available at <http://wcc2018.org/program>

What have made WCC 2018 something more than a regular conference was a set of special events:

- IFIP Capture the Flag Student Competition
- Ph.D. Student Research Competition
- DIME talks (Difficult yet Important Made Easy)
- Oxford debate on Artificial Intelligence

The Oxford debate was moderated by Leon Strous, Past President of IFIP and Honorary Member thereof. The theme of the debate was the following question:
Should Artificial Intelligence be more regulated?

The expert panel consisted of four persons:

- Ulrich Furbach, Chair of IFIP TC-12 on AI
- Eunika Mercier-Laurent, Vice Chair of IFIP TC-12 on AI
- Chris Rees, President of the British Computer Society
- Jerzy Stefanowski, Vice President, Polish Association on AI

First two panel members were against regulations and the last two were in favour of them.

This World Computer Congress coincided with 70th anniversary of Polish Computer Science and therefore Polish Information Processing Society has issued Medals of 70th Anniversary of Polish Informatics and 5 people have been presented them during the opening ceremony of the Congress. Moreover, during the conference *History of Computing in Eastern Europe* two talks given by Marek Hołyński and Piotr Kosiuczenko were devoted to early years of computing in Poland.

Organization of the Congress was under control of two General co-Chairs:

- Roman Slowinski, Chair of Committee of Informatics, Polish Academy of Sciences, and
- Leon Strous, past President of IFIP and Honorary Member of IFIP.

The Organizing Committee co-Chairs were

- Robert Wrembel, past Deputy Dean of Faculty of Computing, Poznan University of Technology, and member of IFIP WG 2.6, and
- Andrzej Jaszkiwicz, current Dean of Faculty of Computing, Poznan University of Technology

They were supported by

- Eduard Dundler, General Secretary of IFIP,
- Joanna Jozefowska, Deputy Rector of Poznan University of Technology,
- Basie von Solms, past President of IFIP and Honorary Member of IFIP (as Publication Chair),
- A Min Tjoa, Honorary Secretary of IFIP.

Program Committee of IFIP WCC 2018 was run by two co-Chairs

- Mike Hinchey, President of IFIP,
- Jerzy Nawrocki, IFIP Councillor

and it consisted of the chairs of WCC events:

- Bartosz Bandała, WSZiB, Poland
- Paolo Ceravolo, Università degli Studi di Milano, Italy
- Vinton Cerf, Google, USA
- Tomasz Cieplak, Lublin University of Technology, Poland
- Tadeusz Czachórski, Polish Academy of Sciences, Poland
- Petr Doucek, Prague University of Economics, Czech Republic
- Lynette Drevin, North-Western University, South Africa
- Lynn Fatcher, Nelson Mandela Metropolitan University, South Africa
- Erol Gelenbe, Imperial College, UK
- Kathrin Gerling, KU Leuven, Belgium
- Lech Janczewski, The University of Auckland, New Zealand
- Andrzej Jaszkiwicz, Poznan University of Technology, Poland
- Kai Kimppa, University of Turku, Finland
- Stanisław Kozielski, Silesian University of Technology, Poland

- David Kreps, University of Salford, UK
- Mirosław Kutylowski, Wrocław University of Science and Technology, Poland
- Christopher Leslie, South China University of Technology, People's Republic of China
- Artur Lugmayr, Curtin University, Australia
- Cezary Mazurek, PSNC, Poland
- Mikołaj Morzy, Poznan University of Technology, Poland
- Dariusz Mrozek, Silesian University of Technology, Poland
- Yuko Murayama, Tsuda College, Japan
- Maria Raffai, Szechenyi University, Hungary
- Kai Rannenber, Goethe University, Germany
- Moira de Roche, IP3
- Anika Schumann, IBM Research, Switzerland
- Leon Strous, De Nederlandsche Bank, Netherlands
- Michał Szychowiak, Poznan University of Technology, Poland
- A Min Tjoa, Vienna University of Technology, Austria
- Marek Wojciechowski, Poznań University of Technology, Poland
- Paweł T. Wojciechowski, Poznań University of Technology, Poland
- Robert Wrembel, Poznan University of Technology, Poland
- Louise Yngstrom, Stockholm Univeristy, Sweden

The institutional organizers included:

- International Federation for Information Processing,
- Committee on Informatics, Polish Academy of Sciences,
- Poznan University of Technology,
- Polish Information Processing Society,
- Poznan Supercomputing and Networking Center.

The financial support or patronage was obtained from companies and institutions, the main of which are:

- GlaxoSmithKline,
- Roche,
- Mayor of Poznan
- Polish Ministry of Digital Affairs
- Polish Ministry of Science and Higher Education

Moreover, IFIP WCC 2018 was supported by IBM, Intel, Bank Polski PKO, Poznan Convention Bureau, BAE Systems, beyond.pl, Microsoft, Santander, IT.integro, Future Processing, Emerald Publishing, Kompania Piwowarska, tidk.

The Congress was attended by over 550 people from 53 countries which is quite satisfactory (according to the estimate made in 2016, the expected number of participants was then about 400). The most represented country was Poland with over 150 participants. From the financial point of view the Congress was also pretty good: there was no deficit (but no profit as well). The premises of the Poznan University of Technology proved very useful and very cheap as well (much cheaper when compared to hotels). There was also no problem with hotel accommodation.

The Congress was followed by IFIP General Assembly which went also quite smoothly in the university's premises.

12. Member Society Report: International Member at Large

12.1 Association for Computing Machinery (ACM)

(Gerrit C. van der Veer, GA Representative ACM)

This report is based on the ACM Annual Report for Fiscal Year 2017 (July 1, 2017 - June 30, 2018), by Vicki L. Hanson, ACM President

<https://www.acm.org/binaries/content/assets/about/annual-reports-current-fy/acmarfy17.pdf>

and on other information provided by the ACM leadership.

Overview of Society

- Society's vision/mission statement: ACM, the Association for Computing Machinery, is the world's largest educational and scientific computing society, uniting educators, researchers and professionals to inspire dialogue, share resources and address the field's challenges. ACM strengthens the computing profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking.
- Website: www.acm.org
- ACM is officially represented in the following Technical Committees (still confusingly labelled "US" at the IFIP website): TC1; TC2; TC3; TC7; TC9; TC11; TC12; TC13; TC14. Participation of ACM in Technical Committee Working Groups cannot be identified: more than half of the ACM members do not live in the USA, and many ACM members are members of one or more IFIP Country Societies.
- ACM Global membership, some statistics:

	31 May 2018		31 May 2017	
Total	98,015	100%	97,484	100%
US	47,137	48%	46,296	47%
Europe	15,894	16%	15,283	16%
<i>other</i>	13,049	14%	12,675	13%
India	10,987	11%	10,139	10%
China	5,101	5%	7,590	8%
Canada	3,095	3%	2,814	3%
Japan	2,752	3%	2,687	3%

	Professionals, 31 May 2018		Students, 31 May 2018	
Total	67,200	100%	30,815	10%
US	36,553	54%	10,584	34%
Europe	11,933	18%	3,961	13%
<i>other</i>	6,293	9%	6,756	22%
India	4,638	7%	6,349	21%
China	2,852	4%	2,249	7%
Canada	2,428	4%	667	2%
Japan	2,503	4%	249	1%

- ACM has 37 Special Interest Groups (SIG) that include 25,000 ACM members and 11,000 SIG-only members:
 - SIGACCESS - Special Interest Group on Accessibility and Computing
 - SIGACT - Special Interest Group on Algorithms & Computation Theory
 - SIGAI - Special Interest Group on Artificial Intelligence
 - SIGAPP - Special Interest Group on Applied Computing
 - SIGARCH - Special Interest Group on Computer Architecture
 - SIGAda - Special Interest Group on Ada Programming Language
 - SIGBED - Special Interest Group on Embedded Systems
 - SIGBio - Special Interest Group on Bioinformatics, Computational Biology
 - SIGCAS - Special Interest Group on Computers and Society
 - SIGCHI - Special Interest Group on Computer-Human Interaction
 - SIGCOMM - Special Interest Group on Data Communication
 - SIGCSE - Special Interest Group on Computer Science Education
 - SIGDA - Special Interest Group on Design Automation
 - SIGDOC - Special Interest Group on Design of Communication
 - SIGEVO - Special Interest Group on Genetic and Evolutionary Computation
 - SIGGRAPH - Special Interest Group on Computer Graphics
 - SIGHPC - Special Interest Group on High Performance Computing
 - SIGIR - Special Interest Group on Information Retrieval
 - SIGITE - Special Interest Group on Information Technology Education
 - SIGKDD - Special Interest Group on Knowledge Discovery in Data
 - SIGLOG - Special Interest Group on Logic and Computation
 - SIGMETRICS - Special Interest Group on Measurement and Evaluation
 - SIGMICRO - Special Interest Group on Microarchitecture

- SIGMIS - Special Interest Group on Management Information Systems
- SIGMM - Special Interest Group on Multimedia Systems
- SIGMOBILE - Special Interest Group on Mobility of Systems, Users, Data & Comp
- SIGMOD - Special Interest Group on Management of Data
- SIGOPS - Special Interest Group on Operating Systems
- SIGPLAN - Special Interest Group on Programming Languages
- SIGSAC - Special Interest Group on Security, Audit and Control
- SIGSAM - Special Interest Group on Symbolic & Algebraic Manipulation
- SIGSIM - Special Interest Group on Simulation
- SIGSOFT - Special Interest Group on Software Engineering
- SIGSPATIAL - Special Interest Group on Spatial Information
- SIGUCCS - Special Interest Group on University & College Computing Services
- SIGWEB - Special Interest Group on Hypertext, Hypermedia and Web
- SIGecom - Special Interest Group on Electronic Commerce

Key activities this year

- Events and Projects:
 - ACM China council:
 - Wenguang Chen and XiangYang Li, co-Chairs of the China Council 2017
 - TUR-C conference in Shanghai, May, 2018
 - 2018 Keynote Speakers include:
 - Turing Laureates Vint Cerf, Leslie Valiant and Raj Reddy
 - Michael I Jordan
 - SIG Chapters meetings and ACM-W China
 - Planning now for TUR-C May, 2019 in Sichuan, Chengdu
 - Established an editorial board
 - Provide introduction/comments in Chinese for CACM articles rather than translating entire articles
 - CACM China insert (Fall, 2018)
 - ACM Europe council
 - Chris Hankin, elected Chair 2017
 - EUACM
 - EUACM and Informatics Europe produced two White Papers:
 - *Automatic Decision Making*
 - *Informatics4All*
 - Panel sessions including European Commission representative in Brussels (March, 2018)
 - Active support for chapters: 50 years of German Chapter
 - Conference on HPC, Barcelona Supercomputing Center, September 2017
 - ACM-WE; womENCourage conference
 - Summer School on Data Science
 - CACM Europe insert (underway)
 - ACM India Council
 - Abhiram Ranade, elected Chair 2018
 - ACM India Annual Event, February, 2018

- Turing Laureates Martin Hellman and Robert Tarjan
 - Moshe Vardi
 - ACM-W conference and Professional Chapters Summit
- CSPATHshala, teaching computational thinking
- ACM India initiative to teach computing as a science in all schools by 2030
- Partnering on Key Activities
 - Sponsor, 2nd AI for Good
 - Partnership on AI
 - ... to benefit people and society
 - ACM rep part of working group on Fair, Accountable, and Transparent AI
 - Heidelberg Laureate Forum
 - Laureates in Computing & Mathematics
 - ACM, A. M. Turing Award
 - IMU, Fields Medal, Nevanlinna Prize
 - NASL, Able Prize
 - 2017 ACM Prize in Computing
 - 200 Young Scholars
- ACM Future of Computing Academy
 - New “ACM experience” that meets the needs of future generations
 - Engender a spirit of loyalty, volunteerism and ACM leadership
 - 1st intake June, 2017 – 46 members
 - Planning for 2nd intake, recruit for technical diversity
 - Podcasts, conferences, blogs
- Conferences

ACM and its SIGs Organized a total of about 350 conferences during this Fiscal Year, see map at <https://dl.acm.org/conferences.cfm> and a complete list at: <https://dl.acm.org/events.cfm>



- Social Responsibility
 - Policy Against Harassment at ACM Activities

The open exchange of ideas is central to the Association for Computing Machinery's mission. This requires an environment that embraces diversity and provides a safe, welcoming environment for all.

This policy applies to all ACM activities, including:

 - conferences, symposia, workshops, and events sponsored, co-sponsored, or in cooperation with ACM any ACM SIG or Chapter or any other ACM subunit;
 - ACM member meetings;
 - exchanges among committees or other bodies associated with ACM activities publications and communications sent through communication channels associated with ACM, including social media.
 - ACM 2018 Code of Ethics and Professional Conduct

Draft 1 was developed by The Code 2018 Task Force. (It is based on the 1992 ACM Code of Ethics and Professional Conduct.)

The Code as a whole is concerned with how fundamental ethical principles apply to a computing professional's conduct. The Code is not an algorithm for solving ethical problems; rather it serves as a basis for ethical decision-making.
- Thought leadership
 - ACM Publications Board
 - New titles
 - New titles in development
 - *Computing for Healthcare*
 - *Digital Government, Practice and Procedures*
 - *Middleware and distributed Systems*

- *IoT*
 - *Quantum*
 - Fellows meeting / Consultant for Gap analysis
 - Both acquisition and organic growth
- Prepublication services with ArXiv
- Ethics and Plagiarism Committee
- Consistent COI
- ACM Practitioners Board
 - Who are ACM's Practitioners?
 - Like knowing about research
 - Need research digestible at right level
 - Not interested in certification
 - ACM Learning Webinars
 - Jay Gambetta (Quantum)
 - Eric Horvitz & Fei-Fei Li (ML);
 - Robyn Murphy (Robotics and Disasters)
 - *AI Decentralized* meet-ups
- ACM Learning Center
 - The ACM Learning Center offers ACM members access to lifelong learning tools and resources. Our E-Learning collections offer complimentary access to more than 55,000 online books and videos from top content publishers. The ACM Learning Webinar series brings leading computing luminaries and visionaries to your screen. Members enjoy exclusive offers and discounts on IT industry certifications and vendor-specific training.
- Government engagement/projects
 - The ACM US Technology Policy Committee (USACM) is a leading independent and nonpartisan voice in addressing US public policy issues related to computing and information technology. The Committee regularly educates and informs Congress, the Administration, and the courts about significant developments in the computing field and how those developments affect public policy in the United States.
 - ACM Europe Technology Policy Committee addresses the EU and European national bodies about significant developments in the computing field and how those developments affect public policy in their region.
 - ACM RISK forum is an online dialogue on risks to the public in computers and related systems, and is heavily involved in issues such as human safety, privacy, ethics, and legal responsibility. The RISKS Forum activity involves many people around the world, some of whom are contributing to the effort through their RISKS submissions.
 - The ACM Education Policy Committee is a high-level committee of acclaimed computer scientists and educators dedicated to improving opportunities for quality education in computer science and computing-related fields. The Education Policy Committee develops initiatives aimed at shaping education policies that impact the computing field. A primary goal of the EPC is to ensure that computer science education is recognized in educational initiatives at all levels of the educational pipeline.

13. Member Society Reports: Country Representative Members

13.1 Austrian Computer Society (OCG)

(Erich Neuhold, GA Representative Austria)

Overview of Society

- Society's vision/mission statement
Aim of the association: The aim of the OCG is the comprehensive and interdisciplinary promotion of informatics and communication technology with due regard to their interaction with people and society.

Measures to realise the association's aim: They include in particular:

1. Collecting and forwarding information about the development of information and communication technology and of certifications
2. Education and training as well as certification in the area of information and communication technology
3. Promotion of further training in the area of information procession and its economic, social and human implications
4. Targeted promotion of certain groups of our society in order to enhance access to ICT technology for all (e.g. people with special needs, the elderly)
5. Co-operation with relevant private and public institutions in accordance with the aim of the association
6. Individual service and counselling for members in accordance with the aim of the association
7. Certification of persons in the area of information technology (e.g. ECDL and OCG certificates)
8. Education, training and certification of trainers and examiners for the certification of persons
9. Issuing of nationally and internationally recognised certificates upon successful completion of tests for personal certification
10. Securing the adherence to the existing quality criteria set by the ECDL foundation or other licensors
11. Development and approbation of teaching and learning material, content development and approbation of electronic test systems
12. Continuous adaption and further development of the certification principles, syllabi and examination questions
13. Development and operation of automatic test systems for personal certification and/or for testing skills and knowledge
14. Certification of companies and other organisations according to European and/or other national and international standards
15. Conducting research and development projects, preferably interdisciplinary projects Representation of Austria in relevant international organisations
16. Organisation of information events, congresses, conferences, meetings and seminars
17. in accordance with the aim of the association
18. Dissemination of relevant knowledge and Austrian best practices in other countries, especially in neighbouring countries and throughout Europe
19. Operation and service of electronic information platforms on the Internet to disseminate information in accordance with the aim of the association
20. Establishment and operation of working groups, forums, branches, affiliated associations and research institutes

- Link to Website: <https://www.ocg.at/>
- Which Technical Committee Working Groups do your members participate in?

The Bulletin Information is mostly correct and up to date. OCG participates in all Technical Committees and in most of the working groups that are related to groups inside of the OCG working on related subjects.

Key activities this year

- **Events (an excerpt)**

Overall OCG sponsored and/ or organized close to 100 events a year. Examples are:

100 Days DSGVO:

Since May 25, 2018, the new General Data Protection Regulation (GDPR) has been in force across the EU and more strictly regulates the processing of personal data. After 100 days of effectiveness, we discuss of 100 days DSGVO at an OCG event on 11 Sep 2018, from 17:00 clock in the OCG office. You can expect a keynote speech from Matthias Schmidl, Deputy Head of the Data Protection Authority and a subsequent panel discussion.

Informatics Day for Teachers

On September 27, 2018, the INFORMATIKTAG will take place again for teachers of all grades, organized jointly by the OCG, Vienna University of Technology, Vienna University, PH Vienna and the Ministry of Education. In the foreground, as always, are innovative and practical approaches to computer science didactics. The preliminary program can be found here. Teachers can also complete the new module ECDL Computing for FREE. The costs for the module examination are borne by the Ministry of Education, Science and Research (BMBWF). Prerequisites: at least basic knowledge of a text-based programming language. More information about the ECDL Computing Workshops can be found at <http://www.ocg.at/de/anmeldungtrainingsworkshop-ecdl-computing> .

The OCG event series “Horizon” in which we try to tackle new emerging IT topics

OCG has organized this year

OCG Horizons: Learning 4.0 - how does it work?

The digital transformation is on everyone's lips. It does not stop at learning and is undoubtedly a component of today's learning culture and will significantly shape learning in the future. The expectations of digital learning formats are correspondingly euphoric and varied: efficiency and faster learning, cost savings, learning experience improvement, teaching quality improvement, electronic documentation, learning analysis etc. But what can digital learning formats really do and what they cannot do and how can it meet those needs of universities and business? What opportunities result for computer science?

- **Projects**

Since 2017 OCG is partner of an EU project aiming to bring robotics into schools. This three year project is led by the University of Technology in Graz.

OCG is leading a project for the Ministry of Transport, Innovation and Technology with the goal to develop and create an ICT scientific landscape. Results of this project were presented at the Alpbach Forum 2018.

- **Social Responsibility**

Since three years OCG is collaborating with some Austrian institutions which are dealing with refugees. OCG offers a basic IT course in order to enhance the digital skills among a small group of refugees. For this project OCG received an international ECDL Award 2017.

OCG also starts a project together with the Working group “Accessibility through ICT” aiming to develop a certificate for Web accessibility.

- **Thought leadership**

- **The eAwards 2019**

- The "eAward" demonstrates the possibilities of information technology (IT) in the reorganization of business processes. The award recognizes projects, services and products from Austria with high customer value. Submissions are categorized according to topic areas:

- Work and organization
 - Initial and continuing education
 - Industry 4.0
 - E-Government
 - Commerce and tourism
 - Smart City and infrastructure
 - Social responsibility (new)

- The nominations will be announced at the end of 2018. At the beginning of 2019, the winners of the different categories will be officially announced. All we need is the description of your product or service. The submission is associated with an amount of 150 euros (including VAT), with which we support, among other things, the broad coverage of submitted and nominated projects.

- **Government engagement/projects**

- The OCG started an initiative named “education 4.0” to enhance digital competences among all Austrians especially among teachers and pupils. This initiative is based on three pillars: informatics as science (including computational thinking), media literacy and digital literacy, It is supported by industry as well as by other associations as for example Digital City Vienna.

- The Ministry of Education has started half a year later an initiative called “school 4.0” in which most of our demands were implemented.

13.2 Australian Computer Society Incorporated (ACS)

(Anthony Wong, GA Representative Australia)

Overview of Society

The Australian Computer Society (ACS) is the professional Association for Australia's Information and Communication Technology (ICT) sector. There are over 42,000 ACS members working in business, education, government and the community. As the professional association and peak body representing Australia's ICT sector, ACS delivers authoritative independent knowledge and technology insights, building relevant technology capacity and capability that catalyses Australian innovation and speeds the adoption of technology for the benefit of commerce, government and society.

Purpose

The Principal Objective of the ACS is to promote the development of Australian information and communications technology resources.

Vision

The ACS' vision is for Australia to be a world leader in technology talent that fosters innovation and creates new forms of value.

ACS' commitment to Australia's future is built on three pillars:

- **CAPACITY:** Ensuring Australia has a growing ecosystem of technology professionals to meet its economic growth needs
- **CAPABILITY:** The development of superior skills to ensure our place higher up the value chain
- **CATALYST:** Sparking innovation – supporting businesses and government to use technology to transform processes and re-imagine customer experiences

Mission

- To deliver authoritative independent knowledge and insight into technology
- To build relevant technology capacity and capability in Australia
- To be a catalyst for innovative creation and adoption of technology for the benefit of commerce, governments and society.

ACS Website: <http://www.acs.org.au>

Which Technical Committee Working Groups do your members participate in?

ACS has representatives on the following six IFIP committees:

- IFIP: Technical Committee 2: Software Theory and Practice – Mr Ted Smillie, MACS (Snr)
- IFIP: Technical Committee 3: Education –Assoc Prof Therese Keane, AACS
- IFIP; Technical Committee 8: Information Systems –Dr Dale Mackrell, MACS (Snr)
- IFIP: Technical Committee 9: ICT & Society –Assoc Prof Oliver Burmeister, MACS CP
- IFIP: Technical Committee 11: Security and Privacy Protection in Information Processing Systems – Assoc Prof Paul Haskell-Dowland, MACS (Snr) CP
- IFIP: Technical Committee 12: Artificial Intelligence –Prof Simeon Simoff, MACS (Snr) CP

In addition to participation in IFIP technical committees, ACS activities in establishing professional benchmarks include being the first international computer society to become accredited under International Professional Practice Partnership (IP3).

During the period of this report, ACS launched the ACS Trust Mark ®. Built on a foundation of international best practice principles, the ACS Trust Mark Scheme® is unique and fit for purpose in Australia. The ACS Trust Mark ® scheme is for the registration of organisations that provide information technology services.

The ACS is represented on the Seoul Accord by Prof Michael Johnson, who is also Deputy Chair of the Seoul Accord. Prof Johnson is also the Director of the ACS Profession Advisory Board. The Seoul Accord is a multi-lateral agreement among agencies responsible for accreditation or recognition of tertiary-level computing and IT-related qualifications.

Key activities this year

Significant Events in this period

- 3rd Reimagination Thought Leaders' Summit and ACS Digital Disruptors Awards; Reimagination 2017 brought together more than 1,000 Australian and international thought leaders from technology, business, academia and the political sphere to advance the conversation on Customer experience (CX), Emerging Tech and New Business Models¹. At the Summit, the ACS presented the Digital Disruptors Awards to honour Australia's ICT professionals' best and brightest innovators and disruptors of the ICT field. Reimagination will be held again in November 2018 in Melbourne.
- Education across the Nation (EdXN) is a signature part of the ACS speaker series. Held quarterly, EdXN presents experts sharing topical insights about the ICT sector today and tomorrow. EdXN is a highly valued event attracting ICT professionals from a wide range of international industries.
- Nine Interviews "ACS Industry Insights" delivered over Facebook live, Periscope, YouTube, Sky Business. The interviews featured some of the ICT industry's most respected leaders, the series was set to explore innovation, challenges and opportunities in tech and what might be in store in ICT'S constantly evolving world.
- ACS Digital Ethics roadshow with Avanade Australia presented in Melbourne, Canberra, Sydney and Brisbane. This roadshow focused on the rise of AI, automation, trends of big data, and an increasingly borderless digital world, the questions that are arising and the need to readdress the way we do business, act as consumers, and operate in communities.

Publications of note and thought leadership

- Data Sharing Frameworks White Paper launched September 2017 to addresses the challenges for ICT professionals when it comes to data sharing, including data security, privacy and legal obligations. ²
- A Vision Splendid: The History of Australian Computing eBook. ³
- In partnership with the Australian Strategic Policy Institute (ASPI) launched two papers: Australia's offensive cyber capabilities⁴ and Deterrence in cyberspace⁵, to look at Australia's position on the global cyber security stage as well as how nations should deal with cyber threats.

- ACS Australia's Digital Pulse 2018⁶. The fourth in the series, this report covered Australia's competitive position in the world as well as the state of the ICT workforce in Australia.
- This last twelve months realised two very important additions to ACS' professional certification offering; specialisations in both Cyber Security⁷ and Safety Critical Systems. In terms of nomenclature, these specialisations are added in brackets after Certified Professional and Certified Technologist. The ACS was privileged to have the Hon Dan Tehan Minister Assisting the Prime Minister for Cyber Security launch the Cyber specialisation. The rollout involved a three State panel discussion with international CEOs from ISACA and ISC2, and the Sydney session involving the Special Advisor to the Prime Minister on Cyber Security Alastair MacGibbon. Both certifications provide critical professional standard benchmarks within Australia.



Hon Dan Tehan Minister Assisting the Prime Minister for Cyber Security presenting at launch of ACS Cyber specialisation.

L-R Andrew Johnson CEO of ACS, Hon Dan Tehan MP, Anthony Wong President ACS, Adrian Armitage Canberra Branch Manager ACS.



ACS Cyber Specialisation Ribbon Cutting.

L-R Anthony Wong President ACS and Hon Dan Tehan MP.



Cyber Resilience Panel Discussion

L-R David Shearer CEO ISC2, Prof Jill Slay Director of ACS Cyber Resilience Initiatives, Matt Loeb CEO ISACA, Andrew Johnson CEO of ACS.



Hon Dan Tehan Minister Assisting the Prime Minister for Cyber Security undertaking media interviews at launch of ACS Cyber specialisation.

- ¹ [AFR Special Report - Reimagination 2017](#)
- ² [Data Sharing Frameworks - Technical White Paper](#)
- ³ [A Vision Splendid: The History of Australian Computing eBook](#)
- ⁴ [Australia's offensive cyber capabilities](#)
- ⁵ [Deterrence in cyberspace](#)
- ⁶ [ACS Australia's Digital Pulse 2018](#)
- ⁷ [ACS launches world-first Cyber Certification](#)

13.3 Bulgarian Academy of Sciences

(Julian Revalski, IFIP representative of Bulgaria)

The activities of the Bulgarian National Committee (BNC) of IFIP during 2018 embraced:

- a) participations in discussions of the Technical Committees and Working Groups of IFIP;
- b) organizing of national and international events;
- c) participation in editorial boards of international and national journals;
- d) participation in commissions and expert groups at a government level, as well as experts of EU.

The Bulgarian National Committee's members have participated actively in organizing the international conferences 'Automatics and informatics', to be held in Sofia from 4-6 October 2018' as well as in ComSystem, held in Russe 13-14 September. Some of its members are members of the Programming Committees and are reviewers of the submitted papers.

Kiril Boyanov, Rumen Nikolov, Petar Kenderov, Vassil Sgurev, Zlatogor Minchev, Sylvia Ilieva, Evgenia Sendova and other representatives of the IFIP TCs have participated in a number of discussions related to the education, innovations and the development of new project proposals within the Horizon 2020 EC program.

The members of the National Committee of IFIP participated in a number of international events as invited speakers, members of PC's and reviewers.

Still the activities related with events organised by IFIP were limited due to lack of financial support for participation in them.

Bulgarian representative in TC6 Prof. Kiril Boyanov suggested Prof. Otto Spaniol to be elected as Honorary Member of TC6. The suggestion was approved.

Prof. Dimiter Velev - Bulgarian representative in TC5 took active participation in several events organized by IFIP:

1. Conference in Information Technology in Disaster Risk Reduction (ITDRR-2017) event- 03124 was held on October 25-27 at the University of National and World Economy in Sofia. Number of accepted papers: 18.
2. International Conference on Application of Information Technology and Communication and Statistics in Economy and Education (ICAICTSEE-2017) – event 03122 was held on November 3-4 at the University of National and World Economy-Sofia. Number of participants: 75.

Assoc. Prof. Zlatogor Minchev (Bulgarian representative in TC11 and in TC14) organized Cyber Research Exercise - CYREX 2018. The exercise provided cyber training of a selected class of IT students from universities and Military Academy. The place of this event was Plovdiv University "Paisii Hilendarski" on 23rd of February 2018.

He contributed also to an International Conference on Entertainment computing (IFIP-ICEC18) held in Poznan on 17 - 20th of September. The aim of the conference is to bring together practitioners, researchers, artists, designers and industry on the design, creation, development, use, application and evaluation of digital entertainment content and experience systems.

There were series of European projects and events in Bulgaria related to the activity of TC3 in which members of IFIP are involved.

During the reporting period (09, 2017 - 08, 2018) the two large events on ICT in Education under TC3 umbrella were held in Bulgaria:

- a) The UNESCO Chair on ICT in Library Studies, Education and Cultural Heritage at University of Library Studies and IT, Sofia, was organizer and a co-host together with the Netherlands Institute for Curriculum Development and coordinator of the fifth International Summit on Information Technology (IT) in Education (EDUsummit 2017 <https://unesco.unibit.bg/EDUsummit17>). It was held in Borovets, Bulgaria, on September 18-20, 2017, EDUsummit 2017. With theme "Rethinking learning in a digital age", EDUsummit 2017 aimed at bringing together around 100 distinguished policy-makers, educators, researchers and representatives of the corporate sector from across the world to discuss key emerging issues concerning the use of IT in education. The EDUsummit 2017 published the strategic Call to Action.
- b) QED'17 conference "Children in the Digital Age", which will be held on September 20-21, 2017 in Sofia, Bulgaria, hosted by the University of Library Studies and Information Technologies (ULSIT), Sofia, Bulgaria; <http://unesco.unibit.bg/en/QED17> . More than 200 people participants.

In conclusion, the activities of the Bulgarian National Committee were limited due to the serious financial problems. Its members could participate in international events mainly by invitation. Additional financial resources are needed for the future.

13.4 Canadian Information Processing Society (CIPS)

(Margaret Havey, Canada's Country Member Representative to IFIP)

Overview of Society

Vision: To be the professional association providing leadership in information systems and technologies.

Mission:

- To advance the Information Technology profession in Canada by
- Determining, developing and maintaining the integrity and competence of individuals active in Information Technology;
- Advancing the theory and practice of Information Technology;
- Promoting the free interchange of information about the theory and practice of Information Technology; and,
- Establishing public awareness of the potential impact of Information Technology and protecting the public and individuals against the misuse of Information Technology.

Website: www.cips.ca

IFIP Technical Committee Working Group Participation

Canada participates in the following IFIP Technical Committee Working Groups:

TC	WORKING GROUPS
TC 1	1.2, 1.3, 1.5, 1.8, 1.10 Secretary of 1.10
TC 2	2.1, 2.3, 2.4, 2.5, 2.7, 2.9, 2.10, 2.11, 2.12 Secretary of 2.5, Chair of 2.10
TC 3	3.1, 3.3
TC 5	5.1, 5.5, 5.10, 5.12, 5.14
TC 6	6.1, 6.2, 6.3, 6.6, 6.8, 6.9, 6.10
TC 7	7.1, 7.2, 7.3, 7.5, 7.6
TC 8	8.1, 8.2, 8.3, 8.6, 8.9 Secretary of 8.2
TC 9	9.1, 9.2, 9.3, 9.4, 9.7, 9.9, 9.10 Secretary of 9.3
TC 10	10.2, 10.3, 10.4, 10.5
TC 11	11.3, 11.5, 11.10, 11.12, 11.14 Secretary of 11.3, Chair of 11.11
TC 12	12.2
TC 13	13.2, 13.5, 13.6, 13.7, 13.9, 13.10
TC 14	14.3, 14.4, 14.5, 14.8, 14.9

Note: There may be some omissions in the above, as not all membership lists were available.

Key Activities This Year

CIPS is celebrating its 60th anniversary this year, having been founded in 1958 by Dr. Kelly Gottlieb following a successful conference for computer practitioners. Professor Gottlieb served as Canada's representative at the founding meeting of IFIP in 1959, and was Canada's IFIP representative from 1960-1966.

In the past year CIPS has revised its Code of Ethics and Standards of Practice, has had its accreditation process reviewed and accredited by the Seoul Accord, and will be re-applying for IP3 accreditation in the fall of 2018.

CIPS is currently experiencing a membership surge related to immigration, as the Province of Saskatchewan is requiring applicants for certain in-demand International Skilled Worker Occupations provide proof of CIPS certification as part of their application. As a result of the exposure gained by the Saskatchewan initiative, three other Canadian provinces are seeing an increase in international applications for CIPS certifications.

13.5 French Informatics Society (SiF)

(Bernard Cornu, GA Representative France)

Overview of Society

Society's vision/mission statement: The French Informatics Society (Société informatique de France, SiF) was founded in 1984, first under the name SPECIF. Its purpose is to promote and foster Informatics as a science and a Technology in the French society, especially in the French Educational system, in order to give the ability for every citizen to understand the new digital world of the 21st century.

SiF has over 600 individual members, 80 institutional members (such as associations, University CS research lab or University CS departments). SiF edits a journal, named "1024", the "Binaire blog" (hosted by the famous newspaper "Le Monde") and runs a number of scientific events every year. SiF is becoming a key influence with French decision-makers in its mission to promote Informatics in education and in the French society.

Website: <http://www.societe-informatique-de-france.fr>

All IFIP TCs have French members. Two of them (TC1 and TC13) are chaired by a French member. Almost all WGs have French members.

Key activities this year

Annual SiF congress:

- 2018: Paris (Palais de la Découverte), January 31st and February 1st. The theme was "Informatics at the cross road with others sciences".
- 2019: Bordeaux, February 6-7. The theme will be "Personal data and privacy".

Projects and main events :

- Video contest for promoting informatics as a science supported by the French Minister of digital, Mr. Mounir Majoubi (<http://www.societe-informatique-de-france.fr/2017/07/concours-de-videos-scienceinfostream/>);
- Mediation school organized in Toulouse in June 2018 by Prof. Dr. Florence Sedes for researchers in informatics to learn how to explain in simple words their research works to a large audience, citizens of the society;
- A full day about "PhD future & perspectives" will be organized in all major cities in France: <https://www.societe-informatique-de-france.fr/les-journees-sif/carrieres-academiques-et-industrielles-que-faire-avec-un-doctorat-en-informatique/>;
- A full day about "Publication model" in conjunction with French Applied Mathematics Association: <https://www.societe-informatique-de-france.fr/journee-modeles-publication-evaluation/>;
- A Group created about Women and Informatics: meetings and workshops, invited talks and round tables – SiF member of the national cause Femmes@Numerique launched by the French government: (<http://www.societe-informatique-de-france.fr/2017/07/casser-les-codes-femmes-genre-et-informatique/>)

SiF is highly involved about "Women and Informatics" and proposes to other scientific societies to pool and share initiatives.

A main topic in France presently is the introduction of Informatics in Lycée (Higher Secondary School) as a new option. It was initiated by the French Minister of Education. The role of SIF is to work closely with organizations in charge to set up this new education program and help to prepare the large number of teachers required to deploy the new program.

The “IFIP-France” Consortium

SIF is the IFIP French Member in the framework of a “Consortium”, gathering the 5 main actors of Informatics in France:

- CNRS – the National Center for Scientific Research, a public organization under the responsibility of the French Ministry of Education and Research.
- Inria - the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”. Graduates from the world’s top universities, Inria’s 2,700 employees rise to the challenges of digital sciences.
- IMT – the Mines-telecom-Institute, is a public institution dedicated to higher education, research and innovation in engineering and digital technologies. The institution is under the authority of the Minister for Industry and Electronic Communication.
- SEE - Société de l’Électricité, de l’Électronique et des Technologies de l’Information et de la Communication - is a nonprofit, state-approved, scientific and technical association, active in France and in French speaking countries.
- SiF – Société informatique de France, which is the official French IFIP member.

SIF and the IFIP-France Consortium are represented at the IFIP GA by Prof. Bernard CORNU, former TC3 Chair. From January 1st, 2019, he will be replaced by Prof. Florence Sedes.

The IFIP Digital Library

Inria is designing and implementing the IFIP Digital Library.

The IFIP-France Committee activities

In 2017-2018, the IFIP-France Consortium held several meetings in order to increase the French involvement in IFIP and to make IFIP better known in France.

Particularly, an “IFIP-France Day” was held on May 28th, 2018. It included a meeting of French representatives in IFIP TCs, and a general meeting in which all French members of TCs and WGs were invited. A lecture was given by Patrick Albert: “A Common of Artificial Intelligence”.

Participation in IFIP TCs and WGs

This meeting was an opportunity for reactivating the role of French representatives in IFIP TCs. All IFIP TCs have French members. Two of them (TC1 and TC13) are chaired by a French member. Almost all WGs have French members. Representatives for most of the TCs will be renewed or replaced on January 1st, 2019, as their term is ending.

IFIP 60th anniversary

The IFIP-France Committee is ready to take part in the preparation of an IFIP event that could take place in Paris, in coordination with UNESCO, in 2020, to celebrate the IFIP 60th anniversary.

IFIP events in France

Many IFIP events take place in France. From 2017 onwards, we can list:

Event	Acronym	Date/Location
20th Innovations in Cloud, Internet and Networks [03037]	ICIN	07/03-09/03 2017 Paris, FR
15th International Symposium on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks [03002]	WiOpt	15/05-19/05 2017 Paris, FR
The 6th International Conference on Performance Evaluation and Modelling in Wired and Wireless Networks [03111]	PEMWN 2017	28/11-30/11 2017 Paris, FR
The 8th International Precision Assembly Seminar 2018 [03162]	IPAS 2018	14/01-16/01 2018 Chamonix, FR
Wireless On-demand Network systems and Services [03209]	WONS 2018	06/02-08/02 2018 Isola 2000, FR
21st Conference on Innovation in Clouds, Internet and Networks (ICIN 2018) [03174]	ICIN 2018	20/02-22/02 2018 Paris, FR
4th Smart Cloud Networks & Systems Conference [03237]	SCNS	06/06-08/06 2018 Paris, FR
Workshop on Formal Methods for Interactive Systems [03228]	FMIS 2018	25/06-26/06 2018 Toulouse, FR
International Working Conference on Human-Centered Software Engineering [04183]	HCSE	03/09-05/09 2018 Sophia Antipolis (Polytech), FR
7th International Conference on Performance Evaluation and Modelling in Wired and Wireless Networks [03258]	PEMWN 2018	26/09-28/09 2018 Toulouse, FR
TRIZ Future Conference [03196]	TFC2018	29/10-31/10 2018 Strasbourg, FR
The 17 International Symposium on Modelling and Optimization in Mobile, Ad Hoc and Wireless Networks [04191]	WiOpt 2019	27/05-31/05 2019 Avignon, FR

13.6 Gesellschaft für Informatik e.V. (GI)

(Kai Rannenberg, Representative of Germany)

Please also note the attached report of the German representative in TC-3 (Johannes Magenheimer, jsm@uni-paderborn.de) that describes in detail several ways of interaction between GI (volunteers) and the German administrations in the area of education and schools.

Overview of Society

- Society's vision/mission statement:
 - Please confer <https://gi.de/ueber-uns>
 - Mission motto: "Enlighten, raise questions, co-shape, move ... ("Aufklären, Fragen stellen, mitgestalten, bewegen...")
 - Mission headlines
 - "Informatics move, Informatics are future, we are Informatics" ("Informatik bewegt, Informatik ist Zukunft, wir sind Informatik")
 - "We are part of a lively network" ("Wir sind Teil eines lebendigen Netzwerks")
 - "We follow up on current topics related to Informatics" ("Wir verfolgen aktuelle Themen mit Informatikbezug")
 - "We build bridges to other disciplines" ("Wir schlagen die Brücke zu anderen Disziplinen")
 - "We care for well-skilled and well-educated coming generations" ("Wir sorgen für gut ausgebildeten Nachwuchs")
 - "To the public we provide a multi-facetted and differentiated perspective on Informatics" ("Wir zeichnen ein differenziertes Bild der Informatik in der Öffentlichkeit")
 - "We contribute Informatics competence into societal debates" ("Wir bringen unsere Fachkompetenz in gesellschaftliche Debatten ein")
- Link to Website: www.gi.de, <https://ifip.gi.de/>
- **Which Technical Committee Working Groups do your members participate in?**
 - All TCs (most matched by Special Interest Groups of GI and often ITG)
 - Almost all WGs (many matched by Special Interest Groups of GI and often ITG)

Key activities this year

- Events
 - #INFORMATIK2018, Berlin (270 km from Poznań, less than 3 hours by train), Sep 26/27. "Future of Work, future of Informatics," <https://informatik2018.gi.de/>, informatik2018.de
 - Further events see <https://gi.de/aktuelles/veranstaltungen/>
- Projects
 - Opening of new digital library, <https://gi.de/meldung/gi-eroeffnet-neue-digitale-bibliothek/>, <https://dl.gi.de/>
 - Relaunch Website <https://gi.de>
- Social Responsibility
 - Work by GI Presidential Board "Data protection and IT Security" (<http://pak-datenschutz.gi.de/>)

- New ethical guidelines (<https://gi.de/meldung/gesellschaft-fuer-informatik-beschliesst-ethische-leitlinien/>)
 - National Informatics Challenges (<https://bwinf.de>): 3 Challenges of different level:
 - Informatik-Biber: Beaver for beginners
 - Jugendwettbewerb Informatik: Advanced pupils
 - Bundeswettbewerb Informatik: Expert pupils, also basis for the selection of German teams for the international olympiads in Informatics, e.g. IOI
 - Critical comments on draft changes of standards for teacher education in the need of better consideration of digitalisation, <https://gi.de/meldung/gi-bildungsexperten-ueben-kritik-an-kmk-vorschlaegen-zu-neuen-fachstandards/> and <https://fb-iad.gi.de/fileadmin/stellungnahmen/gi-fbiad-stellungnahme-kmk-anforderungen-lehrerbildung-digitalisierung.pdf> (English excerpt in the annex, more details in the attachment).
- Thought leadership
 - “Data Literacy und Data Science Education”: Policy Paper (<https://gi.de/themen/beitrag/data-literacy-und-data-science-education-digitale-kompetenzen-in-der-hochschulausbildung/>)
 - Working Paper on structures and collaboration formats for data literacy education (https://hochschulforumdigitalisierung.de/sites/default/files/dateien/HFD_AP_Nr32_Data_Literacy_Kompetenzen_Literatur.pdf)
 - Working paper on informatics education in primary education (<https://gi.de/meldung/bitte-komentieren-kompetenzen-fuer-informatische-bildung-im-primarbereich/>)
Meanwhile a final version of the document exists. Publication is expected in autumn 2018. More details in the attachment.
 - Government engagement/projects
 - Federal Ministry of Education and Research: Project “Turing-Bus” as a mobile offer to youth to discuss and experience the role of digitalisation and technology in work and society (<https://turing-bus.de/>)
 - Federal Ministry of Justice and Consumer Protection: Study on the regulation of discriminatory algorithmic decision-making processes (<https://adm.gi.de>)
 - Federal Ministry of Economics and Energy: Accompanying research to the technology programme “Smart Data – Data-driven Innovations” (<https://smartdata.gi.de>)
 - Monopoly Commission: Consultancy of the Expert Commission of the Federal Government on pricing algorithms (<https://gi.de/meldung/monopolkommission-fordert-rechtliche-anpassungen-bei-preisalgorithmen/>)
 - National Informatics Challenges (<https://bwinf.de>), cf. section “Social Responsibility”

Annex: The GI Response to KMK Teacher Education Standards

The GI demands:

1. Education in the digitally networked world (digital education) must be considered from a technological, socio-cultural and application-oriented perspective.
2. An independent learning area must be established at schools in which the basic concepts and competences for orientation in the digitally networked world can be acquired.
3. In addition, it is the task of all subjects to integrate professional references to digital education.
4. Digital education in the independent learning area and within the other subjects must take place continuously across all school levels for all students in the sense of a spiral curriculum.
5. A correspondingly well-founded teacher training in the reference sciences of informatics and media education is indispensable for this purpose

Source: <https://fb-iad.gi.de/fileadmin/stellungnahmen/gi-fbiad-stellungnahme-kmkanforderungen-lehrerbildung-digitalisierung.pdf>

13.7 Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA)

(Paolo Schgör, IFIP representative of Italy)

Overview of Society

- AICA is the first and foremost association of digital transformation stakeholders in Italy, including IT professionals, university and school professors, corporate members and other people/organizations interested in a savvy usage of digital technologies.
- www.aicanet.it
- Italian representatives participate in almost all IFIP Working Groups and AICA has an official representative in every TC.

Key activities this year

- Annual Congress, 20th-21st October 2017 in Lecce (<http://www.aicanet.it/article/convention-aica-2017-laboratorio-di-progetti-per-costruire-la-societa-digitale-la-patente-europea-del-computer-si-aggiorna-per-stare-al-passo-con-una->)
- Didamatica 2018, annual conference on e-learning, 19th-20th April in Cesena (<http://www.aicanet.it/didamatica2018>)
- Activity as a Certification Body
 - AICA is accredited by Accredia as a certification body compliant with ISO 17024:2012; accredited certification schemes include ECDL Full Standard

e-CFplus, e-Health (plus other accreditation requests pending).

The total number of certification tests provided by AICA every year is around 300.000.
 - Other collateral activities (new projects, online learning services, train-the-trainer courses etc.) can be included under this title.
- Government engagement/projects
 - Several MoUs with Italian Government (Ministry of Education, Ministry of Labour, different Agencies...) regarding e.g. the International Olympiad of Informatics, contests, awards etc.

13.8 Information Processing Society of Japan (IPSJ)

(Yuko Murayama, IFIP representative of Japan)

Overview of Society

- Society's vision/mission statement

IPSJ promotes development of the arts, sciences, industry, and humanity through conducting various activities about information processing with computers and communications and providing resources for discipline and opportunities of cooperation with sister societies to members.

- Link to Website: <http://www.ipsj.or.jp/english/index.html>
- Which Technical Committee Working Groups do your members participate in?

We have the IPSJ representatives to all the Technical Committees as well as IP3.

Key activities this year

- Events:
 - **IPSJ SIGs in 2017**
 - 40 SIGs (Special Interest Group) in three Domains and 3 small SIGs (Appendix 1)
 - Registered Members : 11,053
 - SIG meetings: 160 times/year ,
Technical reports 3,365, attendees 8,167
 - SIG Conferences & Symposia
21 times held, papers 1,322, attendees 3,503
 - **Annual National Convention (March, 2017)**
 - National Convention in spring
 - Generally held in Tokyo area for 3days
 - 79th National Convention,
March 2017 at Nagoya University,
 - 1,441 papers presented with 2,936 attendants
 - KISSE(Korea), CCF(China) and IEEE-CS representatives gave speech.
 - The event was broadcasted by Niconico Internet Broadcasting over 108K
 - **Forum on Information Technology (September 2017)**
 - National Convention in autumn
 - Held jointly with IEICE for 3days
 - Forum on Information Technology (FIT2017)
 - September 2017 at Tokyo University
 - 469 papers presented with 1,505 attendants
 - **International Conferences in 2016**
 - **ACSI2016**
The 2nd Annual Meeting on Advanced Computing System and Infrastructure
18-20 Jan, 2016 Fukuoka, Japan
 - **COMPSAC2016**
IEEE Conference on Computers, Software, and Applications
10-14 June, 2016 Atlanta, USA

- **IWSEC2016**
The 11th International Workshop on Security
12-14 Sep, 2016 Tokyo, Japan
- **CollabTech2016**
The 8th International Conference on Collaboration Technologies
14-16 Sep, 2016 Kanazawa, Japan
- **ICMU2016**
The 9th International Conference on Mobile Computing and
Ubiquitous Networking, 4-6 Oct, 2016 Kaiserslautern, Germany
- **Global Presentation**
 - Global relationship event at CCF CNCC2017 (October) with
KIISE, ACM & IEEE-CS.
- **Projects**
 - **Publication**
 - **IPSJ Magazine**
 - Japanese / Monthly
 - 280 items / 1,300 pages per year
 - Published as paper magazine
 - **Online Publication**
 - Started online publishing in 2008 through IPSJ Digital
library
 - Available at Apple AppStore
 - **JIP (Journal of Information Processing)**
 - Online English journal
 - IPSJ Digital Library Open and Free!
 - <http://www.istage.ist.go.jp/browse/ipsijip>
 - 100 papers per year / monthly
 - No.1 ICT English journal in Japan
 - **Transactions (non periodical)**
 - 10 transactions included 160 papers, 1,500 pages
 - Edited by each SIG in Japanese(J) and English(E)
 1. IPSJ Trans on ACS(J/E) Advanced Computing
Systems
 2. IPSJ Trans on PRO(J/E) Programming
 3. IPSJ Trans on TOM(J/E) Mathematical
Modelling and its Applications
 4. IPSJ Trans on TOD(J/E) Databases
 5. IPSJ Trans on CDS(J/E) Consumer Devices &
Systems
 6. IPSJ Trans on CVA(E) Computer Vision and
Applications
 7. IPSJ Trans on TSLDM(E) System LSI Design
Methodology
 8. IPSJ Trans on TBIO(E) Bioinformatics
 9. IPSJ Trans on DCON(J/E) Digital Contents
Creation
 10. IPSJ Trans on TCE(J/E) Computer and
Education

- Certified by IPSJ
 - High level IT human resource having competence of ITSS* level 4 or above
 - Equivalent to SFIA* level 5 or above
 - 3-year validity period
 - **Purpose**
 - Visualize high level IT professionals, and raise their social position (establish the profession)
 - Develop IT professional community
 - **Design policy**
 - Make full use of Japanese standards: ITSS and ITEE
 - To be accepted internationally: IFIP IP3 accreditation
 - **Two Operation Methods**
 - Direct Method (from 2013)
 - IPSJ certifies professionals directly.
 - Indirect Method (from 2014)
 - IPSJ accredits a certification scheme of a company, then certifies professionals certified by the company indirectly.
 - **Current Status**
 - 7,500 CITPs have been certified.
 - 8 company-groups have been accredited.
 - CITP Community was established in 2014.
- Government engagement/projects
 - Contribution to International Standardization
 - ITSCJ: Information Technology Standards Commission of Japan
 - One section of IPSJ for JTC1 standardization
 - Domestic
 - Number of Committees: 89
 - Number of Committee experts: 1,262
 - Number of Committee Meetings per year: 540
 - International
 - Number of Attending Meetings: 363 (per year)
 - Number of Japanese Delegates: 1,093
 - Number of Japanese Chairpersons: 4
 - Number of Japanese Secretariats: 5
 - Number of Meetings hosted by ITSCJ: 4
 - Membership: 67 Companies (as of 2016)

Major Activities SIGs 2017



Computer Science Domain	Information Environment Domain	Media Informatics Domain
Database Systems (DBS)	Distributed Processing System (DPS)	Natural Language (NL)
Software Engineering (SE)	Human Computer Interaction (HCI)	Intelligent Computing Systems (ICS)
System Architecture (ARC)	Computer Graphics and Visual Informatics (CG)	Computer Vision and Image Media (CVIM)
System Software and Operating System (OS)	Information Systems (IS)	Computers in Education (CE)
System and LSI Design Methodology (SLDM)	Information Fundamentals and Access Technologies (IFAT)	Computer and Humanities (CH)
High Performance Computing (HPC)	Audio Visual and Multimedia Information Processing (AVM)	Music and Computer (MUS)
Programming (PRO)	Groupware and Network Services (GN)	Spoken Language Processing (SLP)
Algorithms (AL)	Document Communication (DC)	Electronic Intellectual Property (EIP)
Mathematical modeling and Problem Solving (MPS)	Mobile Computing and Pervasive Systems (MBL)	Game Informatics(GI)
Embedded Systems (EMB)	Computer Security (CSEC)	Entertainment Computing(EC)
	Intelligent Transport Systems and Smart Community (ITS)	Bioinformatics and Genomics(BIO)
	Ubiquitous Computing Systems (UBI)	Collaboration and Learning Environment (CLE)
	Internet and Operation Technology (IOT)	Assistive and Accessible Computing (AAC)
	Security Psychology and Trust (SPT)	
	Consumer Devices & Systems(CDS)	
	Digital Contents Creation (DCC)	
	Aging Society Design (ASD)	
		<p>Three small SIGs</p> <ul style="list-style-type: none"> • Network Ecology (NE) • Society's Social Responsibility (SSR) • Legal issues concerning Information Processing (LIP)

13.9 Koninklijke Nederlandse Vereniging van Informatie-professionals (KNVI)

(Royal Netherlands Association of Information Professionals)

(Wouter Brongeeest, IFIP representative of the Netherlands)

Overview of Society

The Royal Netherlands Association of Information Professionals (KNVI) is a professional association for individuals employed as information professionals or who are interested in this field in all its facets.

The Association has set the following objectives:

- a) Contributing to the professionalization of employees in the field in general and of its members in particular;
- b) Representing the interests of the professional field in the event of (domestic and European) policy changes and exercising control over policymaking;
- c) Liaising with key partners;
- d) Promoting domestic and international cooperation;
- e) Promoting interaction between the members;
- f) Raising awareness among members of their social responsibility;
- g) Providing opportunities for personal certification in accordance with the ISO 17024 standard within the information technology (IT) field.

The Association will attempt to achieve its mission in the following ways:

- a) Sharing knowledge, or facilitating such knowledge-sharing, through both face-to-face and virtual meetings (including conferences, workshops, field trips, etc.);
- b) Issuing, or facilitating the issuance of, publications relevant to the professional field;
- c) Promoting training and education;
- d) Collaboration with other domestic and international organisations;
- e) Establishing departments, Special Interest Groups (SIGs) and Regions.

At the moment the board members are:

- Chair: Wouter Brongeeest and Paul Baak (duo-chair)
- Treasurer: Perry Moree
- Secretary: Sandra de Waart
- Board members: Maarten Emons, Frans Huigen, Eric Kokke, Gert Zwagerman, Didi Mulder, Anita Bosman, Tom Dalderup, Marthe Tholen.

KNVI has 4500 members. Website: <https://www.knvi.nl/>

The KNVI has been founded more than 100 years ago. This is the effect of several mergers of previous organisations of information professionals, the last one at the beginning of 2017 (Dutch IFIP member society NGI-NGN and the smaller KNVI and SOD).

The name KNVI has been chosen, because of two main reasons; First, the 'I' standing for 'Information professional'. This overarching description of the profession makes all members recognise the core of their profession and connects them to the goal of the KNVI-organisation. Second, the long history of information professionals, starting at the beginning of the last century. ICT did not exist yet, but information was the basis for all development in society. The fact that the KNVI has a more than 100 year history makes the organisation a formal Royal organisation.

Key activities this year

KNVI has facilitated more than **100 events** in the Netherlands. Some of these events were relatively small scale or working groups of professionals getting together to discuss a specific theme. Other events were large, attracting up to almost 800 participants. In our annual report part of these events are described.

KNVI has also published the '**IT manifest for Government**', an initiative to make government more aware of the importance of IT and the way IT-projects should and could be managed. As an answer to a governmental report by the 'Commissie Elias'- that investigated IT-projects in Dutch government, the KNVI published this short and concise manifest. The main focus points are (1) to choose organisational goals before IT-goals, (2) to co-create on basis of trust, not just in the basis of legal contracts, (3) to choose for smaller project and co-creation in value chains, (4) to put craftsmanship above reputation, and (5) to choose for change and agility above rigid planning processes.

KNVI recently published five **books**:

- Op de Coul, J., Oosterhout, C. van, Werken in een digitale wereld - Het KNVI Competentie Model: Alles over functies, taken, rollen en competenties
- Bronsgeest, W.L., Wesseling, M., De Vries, E., Maes, R., Informatieprofessional 3.0, 2e geheel herziene druk.
- De Pous, V. (red.), Digitaal recht voor IT professionals
- Verhagen, E., Geheugentrommels, CWI
- Bronsgeest, W.L. (red), Wegwijzer voor Evalueren van IT projecten, Van Haren Publishing.

KNVI also participated in activities in the Netherlands for the **European Computer Driving Licence** (ECDL). KNVI is the owner of the national licence for ECDL. Furthermore, KNVI was active in implementing the European Competence Framework (e-CF). KNVI is the official national professional organisation that helps implementing this framework. A Special Interest Group of KNVI is active in organising the network and lobbying in Brussels (EU). Members of KNVI have been especially active in contacts about the e-CF framework. Next to the contacts in Brussels, KNVI has been supporting the ISO/NEN organisation, translating the e-CF 4.0 into Dutch. Furthermore KNVI supports different working groups of the ISO-organisation in the Netherlands.

The KNVI has regular talks with policy makers. We are involved in the **Dutch Digital Delta (DDD)** of the Ministry of Economic Affairs. Part of this programme is the Dutch Blockchain Coalition and the Human Capital Agenda of the Netherlands. Together with Business University Nyenrode we organise a Master class Digital Leadership. Twice for professionals and students in the profit sector, and twice for professionals and students in the public sector. For the University of Twente our members give special master classes ICT, Governance and Innovation.

In the Netherlands, KNVI tries to **liaison with other associations**. Different talks have been initiated to work together with other organisations in the Netherlands. These contacts resulted in joint events and the intention to work together. One example is the partnership of KNVI with the Foundation for Responsible Robotics (FRR). The new partnership will aid FRR to achieve its mission to shape the future design, development and use of robotics in a responsible way and widen its network of professional practitioners. In turn, FRR broadens KNVI's network into the robotics domain and provides insight into the newest digital transformations.

Many members of KNVI play a part in **implementing the GDPR regulations** in the Netherlands. KNVI has organised a number of events to help members to inform themselves about the GDPR, including a symposium in Amsterdam on the evening of the formal start of the GDPR, the 24th of May 2018.

Ethics is a topic KNVI is investing in. KNVI contributes to the Dutch "**Ethical Manifesto for Architects**" and to the development of a Code of Conduct within the EU. The Ethical manifesto is a Dutch national initiative of the professional associations KNVI and NAF and of Sogeti. In the EU, KNVI represents CEPIS in the workgroup of TC 428 on Ethics, thus ameliorating one of the four pillars of IT-professionalism. KNVI stresses in his contributions the importance of open ethical standards and of a practical toolkit for the daily work of information professionals, and proposes a draft of such a toolkit.

KNVI participates with the Koninklijke Hollandsche Maatschappij der Wetenschappen (KHMW) for the **Young Talent Prizes and Master thesis prizes**.

Young Talent Prizes Informatics and technical information science went to:

- Davide Barbieri, Rijksuniversiteit Groningen
- Gijs van Cuyck, Radboud Universiteit Nijmegen
- Joshua Kenyon, Vrije Universiteit
- Teun Mathijssen, Universiteit van Amsterdam
- Hugo Melchers, Technische Universiteit Eindhoven
- Cathy Schmit, Universiteit Twente
- Jochem Raat, Technische Universiteit Delft
- Marien Raat, Universiteit Utrecht

Thesis prizes went to:

1st price:

Jos Wetzels (TU Eindhoven): KINTSUGI Identifying & addressing challenges in embedded binary security

2nd price:

Anna Latour (Universiteit Leiden): Incremental algorithms for solving stochastic constraint optimisation problems with probabilistic logic programming
Paul Marcelis (TU Delft): Frame Loss Characterisation and Data Erasure Coding for LoRaWAN

IFIP events in NL in 2017 and 2018

For 2017 and 2018 no events were listed for the Netherlands in the IFIP Calendar of Events.

Previous years: 2010 (3), 2011 (4), 2012 (6 incl. WCC), 2013 (2), 2014 (1), 2015 (3), 2016 (1).

Smart Humanity

In 2018, KNVI inspires the profession of the information professional with a new annual theme: Smart Humanity. Smart Humanity emphasises the permanent and central position of humanity in our digital society. Smart Humanity is also the theme of the annual congress at the end of 2018, in Eye museum in Amsterdam.

Five working groups of KNVI will discover and define Smart Humanity the next two years from different perspectives:

- Smart GLAM (Galleries, Libraries, Archives, Musea)
- Smart Me & Ethics
- Smart Mobility
- Smart Industries
- Smart Cities

What does KNVI mean by 'Smart Humanity'? A short introduction:

Society is changing under the influence of digital technology, thereby altering the role and position of humanity itself. Opinions on these alterations, however, differ. Some people expect robots and algorithms to take over the world, others envision a beautiful amalgamation of humanity and cybernetics, while yet others imagine humanity using IT to restore polluted Earth to a state of biological balance. No matter which scenario will prevail, humanity is central in our information society and should remain central in all current and future changes.

The role of the information professional is important, but society cannot allow digitisation and these changes to happen without its involvement. Everyone has a responsibility; everyone will have to learn to position themselves relative to technological possibilities. 'Everyone has to develop an awareness of the issues that new technology, new business models and new ways of communication will entail.

The KNVI has put forward and elaborated on the concepts 'Information professional 3.0' and 'Digital transformation' in various policy papers and publications. 'The essence of the first, but especially the second disruptive wave of change has had an unprecedented impact on professionals and the organisations where these people work. The information professional 3.0 carries a great responsibility,' according to Wouter Bronsgeest, one of the two chairmen of the Royal Dutch Association of Information Professionals (KNVI).

Information professionals and KNVI play a vital role in promoting the awareness outside the information professions. It is a role that government and the private sector have not yet adopted and a subject that science has only recently begun to explore. Smart Humanity means people who are able to use digital developments in society. A society that uses technology in an ethically responsible manner. A society that knows how to balance Earth and its resources. A society which uses technology to stop pollution and depletion of Earth's resources. A society which uses innovation to combat injustices and to give all individuals, without exception, the chance to live a life in dignity.

IFIP – KNVI

KNVI is represented in all TCs of IFIP. Concerning the working groups, there are Dutch professionals member in working groups WG 2.1, WG 2.14/6.12/8.10, WG 2.16, WG 5.1, WG 7.3, WG 8.5, WG 9.2, WG 9.6/11.7, WG 9.8, WG 11.5, WG 12.7, WG 13.7, WG 13.9, WG 14.4, WG 14.6 and WG 14.7. Some of the WG-members are also a member of KNVI, but the KNVI-board is still contacting all representatives to check this.

In 2017 Leon Strous and Wouter Bronsgeest were in the process of handing over the GA representation. During this process they had bilateral meetings with a number of official TC representatives for the Netherlands. These 13-15 meetings were very useful to learn first-hand what issues are keeping them busy. In 2018 these meetings

were continued. The rich collection of comments and suggestions are not only useful for the KNVI in its relationship with the TC representatives but are also very useful for IFIP, both for the member societies and for the TC's.

Furthermore, the KNVI installed a new 'Special Interest Group'(SIG) in May 2018: SIG International Liaisons. Members are:

- Leon Strous
- Klaas Brongers
- Frits Bussemaker
- Liesbeth Ruoff
- Jos Timmermans
- Perry Moree
- Wouter Bronsgeest

This SIG has the objective to co-ordinate the international activities of KNVI, support other SIGs of KNVI with their international activities and advise the chairman of KNVI on a variety of international matters. Co-ordination is important, since next to the IFIP membership, KNVI is also member of CEPIS and represented in IFLA (International Federation of Library Associations and Institutions) and ECDL (European Computer Driving Licence).

KNVI has several members active in the international arena of ICT organisations. The chair of the Advisory Committee of KNVI is Marietje Schaake, member of the European Parliament and responsible for the European Digital Agenda.

Based upon the talks with the Dutch representatives, there are a few topics KNVI wants to address in this annual report relevant for the General Assemblée of 2018:

Open access for scientific publications

Comments

This is still an important issue for many representatives. It is generally acknowledged and accepted that this takes time but it is also generally felt that progress is too slow. Initiatives are being taken under the pressure of governments in the context of public funding of research programmes.

KNVI supports the vision of the European Union, as put down in the Horizon 2020 programme and the views on Open Science (see:

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/open-science-open-access>). Also researchers and research institutions start initiatives (see for instance the Fair and Open Access Alliance <https://fairoa.org/>). IFIP should not lag behind.

Open access does not have to be for free but pricing should be open and transparent and moreover fair compared to the work to be done for publishing, promoting and indexing papers / books.

IFIP should become less dependent on commercial publishers and speed up initiatives to realize this.

Suggestions

1. IFIP should not be a follower of the discussion but take a pro-active role and initiate and guide discussions. Talks to the IFIP publisher and other publishers about future options and models should be continued.
2. IFIP could be more active in discussions on the topic in groups / projects / initiatives of influential organizations such as UNESCO.

3. Use the IFIP DL as a vehicle to promote the concept of open access.
4. Consider options for a financial model for IFIP where IFIP no longer needs income from publications for the operational expenses.
5. There is an offer to work on a proposal for the IFIP Publications Committee based on the Fair Open Access Alliance ideas.

Status of IFIP in the academic world

Comments

IFIP is seen as the international federation that provides a platform free from political and commercial influences for academics worldwide. Although in principal seen as worldwide some consider the participation from European countries relatively big compared to the rest of the world.

Academics appreciate the IFIP activities and the opportunities to have (their students) papers presented at conferences and the networking with colleagues in IFIP groups. Where some TCs and Working Groups are active and have a prestigious reputation, others are not active (enough) or the quality of the work is not (perceived as) good enough to compete with conferences of our (bigger) member societies. This is also the case for the flagship events of IFIP. Possible reasons are insufficient consistency in timing, organizational aspects and programming.

Some academics see their volunteer role as representative in a TC as a way to “give back” some time and knowledge to colleagues that also help them in their work.

Suggestions

1. Provide more clarity and easier accessible information about the internal functioning of IFIP: good practises, “job” profiles for TC and WG members, and share information among TCs and WGs about the approach taken by those groups that are successful and have an excellent reputation.
2. Do more quality control on the organization of events and consider for instance the establishment of steering committees for those events that IFIP wants to be acknowledged by the outside world as a series of consistent, high quality, regular editions.
3. Have the groups more explicitly choose for what they want to achieve and what they want to be, e.g. organizer of very high quality events, forum for PhD students, informal discussion group, focus on writing white papers, etc. Being more clear and explicit helps profiling and promoting the group.
4. Increase promotion of the role and unique position of IFIP on a global scale. Using the credit of IFIP organization to per-establish some contacts with a few high impact journals for each of the good conferences organized by IFIP members (while each conference will itself provide you with the name of these potential journals). This would help the program committee of the conference with increasing the possibility of publishing 1 or 2 special issues of Journals every year from the extended version of a number of best papers from the conference proceedings. We can then even get to announce the name of these journals in the Call for Paper of our conferences and attract more academic people to the conference.
5. Creating the possibility of partially covering the financial risk that may be encountered by a well-established IFIP conference for a year or two by its related TC. For instance this can be supported through yearly savings from the conference's contribution to its related TC.
6. Finding a way to have all IFIP proceedings indexed by the ISI Web of Science. Currently, proceedings published by Springer are automatically indexed by SCOPUS, but not by Web of Science (We are aware that conferences sponsored by IEEE are automatically indexed all the time, without any action from the organizers. So, we guess that IEEE has established some direct channels with ISI/Clarivate. Therefore, we hope that the same would be possible for IFIP

(perhaps via Springer). This is very important for the academic people attending our conferences, as many universities give preference to the publications in Web of Science.)

Link between IFIP and member societies

Comments

TCs and WGs (and representatives / members) could cooperate more in a number of ways. Sometimes IFIP groups organize events in the country while the member society is not aware of this. Also on topics of general interest and/or with a big societal impact the interests of member societies and of IFIP are often similar. Think about professionalism, digital society, AI, robotics, Internet of Things.

Suggestions

1. IFIP representatives to liaise with (the board of) the member society more frequent about the output (papers, proceedings, etc) of both, about developments, reports, requests from government, positions towards government, starting joint activities.
2. Make better use of the communication means of both organisations (journals, newsletters, and websites) to promote each other's work.
A good start has been made by IFIP right after the GA in 2017. A Communications Committee has started, chaired by Max Bramer.
3. Identify topics where a joint statement could benefit both in their positions towards their constituencies and towards the government / government bodies. Think about concerns with regard to the priorities of governments in funding research, in key areas of attention and in addressing the possible consequences of technological developments.

13.10 IT Professionals New Zealand (ITP NZ)

(Liz Eastwood, IFIP representative of New Zealand)

Overview of IT Professionals NZ

www.itp.nz

IT Professionals NZ (ITP NZ) is a community of professionals who work in the IT industry and care about professional practice, support professional development, set standards, and work hard to help other members get ahead. With a history spanning 58 years, ITP is the largest and most trusted tech body in New Zealand.

ITP NZ engages with government, the education sector, academia and the public at large to increase the education, professionalism and expertise of those working in the IT industry and advance education across the board in the interests of New Zealand.

ITP NZ also actively represents the profession and the sector on a range of education, policy and standards setting boards across NZ, such as primary and secondary school curriculum re-development, immigration policy for IT Professionals and more.

ITP NZ offers tertiary degree accreditation aligned to the Seoul Accord (of which ITP is a provisional signatory) and member certification in the form of Chartered IT Professional NZ (CITPNZ) licensed from BCS, the Chartered Institute for IT at SFIA Level 5 and Certified Technologist (CTech) at SFIA Level 3. In addition, ITP NZ promotes IT as a career choice in schools and offers a mentoring programme and many other initiatives.

Individual New Zealand academics at Auckland, Wellington and Waikato Universities actively participate in IFIP Technical Committees 8 and 11.

Key activities this year

Local events and presentations

161 local events and talks were organised in the last year, all around New Zealand, by the national office and 8 branch committees. Target audiences range from new entrants to senior management and government ministers. Most of these events are free to members. In addition, we run many regular short courses to upskill members and non-members alike <https://itp.nz/courses/>.

ITx 2018

ITx is a collaboration of **twelve tech-focused conferences** led by ITP NZ and held every 2 years. ITx is the largest independent tech conference in New Zealand and attracts the best innovators, leaders and experts in our sector. ITx focuses on innovation, technology and education and brings IT professionals, decision-makers, leaders and academics together under one roof. This is where industry, academia and government come together to network, learn and engage.

The ITx programme provides a well-rounded mix of experience in innovation, war stories, new trends and leadership, with many opportunities for engagement, including conference sessions, workshops, and group discussion. This year the topic of mental health in the workplace was a strong attraction. See <https://itx.nz/>.

Government engagement/projects

ITP NZ continues to be at the forefront of sector representation to Government. For example, ITP NZ is a founding member of the *Digital Skills Forum* – a group of senior policymakers from a number of Government agencies and sector bodies working to align skills development initiatives across Government and the private sector. ITP NZ representatives also meet with Government Ministers and other Members of Parliament on a regular basis.

The majority of other engagement has been with the Ministry of Education and related agencies, the Ministry of Business Innovation and Employment (MBIE), Immigration NZ, the office of the Government CIO, Tertiary Education Commission, Department of Internal Affairs, Cyber Security Taskforce, Department of Prime Minister and Cabinet and various others.

New Digital Technologies Curriculum in Schools

ITP NZ has led industry input into what has become a transformational change in the school curriculum in New Zealand, including Digital Technologies becoming a compulsory subject from Years 1 to 10 (Primary School, Intermediate School and early Secondary School).

Engagement with indigenous New Zealanders (Māori)

Last year ITP NZ strengthened our engagement with the Māori (indigenous New Zealand) IT community by providing a mentoring programme and working to ensure the organisation, and the industry, was seen to be open and welcoming to people from all cultures and genders.

ITP NZ was honoured by being gifted a Māori (indigenous) name Te Pou Hangarau Ngaio which we now use alongside our English name. This roughly translates as the organisation is a central support to its members who are IT specialists. ITP NZ is working on activities to promote the IT profession as a rewarding career option for Māori youth.

Other Key Projects

- **Degree Accreditation:** The Degree Accreditations Board continued to progress well this year. ITP NZ is a provisional member the Seoul Accord working towards full signatory status. The Accord has appointed reviewers from Hong Kong, Japan and the UK to visit New Zealand and review our processes. The Accord will consider our application and the reviewers' report at the Seoul Accord meeting in June 2019.
- **Qualifications Review:** ITPNZ and the Government's NZ Qualifications Authority National Qualifications Service, as co-developers of sub-degree computing qualifications in New Zealand, have undertaken significant industry consultation and ascertained that there is genuine industry demand for specialised qualifications in the disciplines of Software Testing and Cybersecurity. These qualifications are in the final stages of being listed on the NZ Qualifications Framework, after which they will be offered by tertiary institutions throughout NZ.
- **Immigration Qualifications Assessment:** ITP now provides a Qualifications Assessment for the NZ Government's Immigration authority. This means ITP undertakes assessments for those looking to work in New Zealand to determine whether their qualifications are sufficient. This is a significant project and growing.

ITP has also been successful in having international Seoul Accord-accredited degrees as well as those with CITPNZ (plus a degree) automatically recognised for immigration skills purposes.

- **SFIA adoption:** ITP NZ has supported and promoted the adoption of SFIA by both Government and Industry in New Zealand for a number of years. NZ Government's policy setting agencies have endorsed SFIA as the tool that Government agencies should use for the evaluation of tech skills.

ITP NZ is pivotal in the forming of a SFIA taskforce within Government to increase adoption by government ministries and agencies. ITP NZ is currently investigating providing a SFIA self-assessment tool to members.

- **123Tech Challenge in schools:** ITP's TechHub CREST Challenge has now become the national Tahī Toru Rua Tech Challenge in schools. Tahī Rua Toru is "123" in New Zealand's indigenous Māori language (te reo). Partnering with the Ministry of Education, ITP created the 123Tech Challenge in partnership with others (such as the Royal Society, Code Club, teachers and others) to support the new Digital Technologies & Hangarau Matihiko curriculum in schools. Small teams complete the challenge as a whole-class activity, smaller in-class groups, or through their local Code Club. ITP led the bid to win an open tender for this programme, funded jointly by the Ministry of Education and Industry.

Thought leadership

ITP NZ runs many events with senior thought leaders talking about all aspects of IT, including industry leaders, experts, politicians, senior government officials and others. ITP NZ also hosts technology political debates featuring the ICT spokespeople of all major political parties talking about their policies and direction in relation to information technology, including the main debates prior to the 2017 national elections.

ITP NZ produces a weekly update to members and others about what's happening in the industry, plus produces the widely read ITP TechBlog (<https://techblog.nz/>). ITP NZ also appears regularly in national and local media with appearances on TV news, a regular tech slot on radio and being quoted regularly in newspapers and various online news services (tech, business and general).

13.11 Norwegian Computer Society (NCS)

(Sindre Roesvik, GA representative Norway)

Overview of Society

The NCS is the largest special interest society for information technology (IT) in Norway. It is an open, independent forum for Norway's IT professionals and advanced IT users. The society encompasses the IT industry, corporations in general and research and development institutions. The NCS is an independent and wholly self-financed society with more than 10,500 registered members and more than 1,200 company members.

To offer our members updated information within their field of interest and a chance to develop their level of competence through seminars, conferences and network building

- To inform about the benefit of practical use of IT
- To be active as a body entitled to comment on cases for the Norwegian government
- To work for social commitment
- Activities towards governmental and political authorities

NCS works toward politicians, governmental and public institutions in order to influence the legislation made in relation to telecommunication and national IT strategies. The Society has a good working relationship with the different sections of the government and is engaged in the follow-up of policy decisions and legislation. NCS works toward putting IT political matters on the national agenda.

Link to web site:

<https://www.dataforeningen.no>

Which Technical Committee Working Groups do your members participate in?

- TC1 Foundation of Computer Science
- TC2 Software: Theory and Practice
- TC3 Education:
Sindre Røsvik, Giske kommune
- TC5 Computer Applications in Technology
Kesheng Wang, NTNU
- TC6 Communication Systems
Finn Arve Aagesen, NTNU
- TC7 System Modelling and Optimization
- TC8 Information Systems
John Krogstie, NTNU
- TC9 Relationship between Computers and Society
Bernt Nilsen, Datakortet AS
- TC10 Computer Systems Technology
Olav Landsverk, NTNU
- TC11 Security and Protection in Information
Audun Jøsang, University of Oslo
- TC12 Artificial Intelligence
Agnar Aamodt, IDI, NTNU
- TC13 Human Computer Interaction
Dag Svanæs, IDI, NTNU

Key activities this year

Events – Projects – Social Responsibility

▪ **International affiliations:**

The NCS is a member of the Nordic Data Union, the Council of European Professional Informatics Societies (CEPIS), and the Federation of Information Processing (IFIP). Furthermore, NCS has joint membership with ACM. The NCS attaches great importance to international work, which is a prioritized strategic area.

▪ **Product development:**

Special offers to personal members / Company members. The NCS is working to improve and renew the special offers to the members in accordance with the different target groups in the member base. We are working hard to promote the Society on the World Wide Web (<http://dataforeningen.no/>), and at this time we are integrating more functionality for our governing bodies into our Web solution.

▪ **Special IT contract standards have been developed, such as:**

- PS2000 SOL
- PS2000 STANDARD
- PS2000 AGILE
- [See full list and read more](#)

▪ **NCS Publications:**

- An information/news page once a week in Computerworld Norway, a national computer paper published every Friday.
- Own web site
- Documentation
- Reports
- Guidelines and checklists (published at irregular intervals) (In Norwegian only)

▪ **NCS Events 2018 (Major Events)**

- Software 2018
- Yggdrasil 2018
- Ark 2018
- eHealth 2018
- IT-contract day 2018
- CFP – eHealth
- Test Conference ODIN
- Tool-support for Service Management
- Security Symposium 2018
- DND Rosing/consultants prize
- Trondheim Developer conference
- Cyber security in the boardroom

Government engagement / projects

Work towards governmental and political authorities to influence legislation related to telecommunication and national IT strategies. NCS has functional relations with government bodies and is engaged in follow-up of policy decisions and legislation. Focus is also on setting IT political matters on the agenda.

13.12 Informatics Association of Serbia (IAS)

(Nikola Marković, GA Representative Serbia)

Members

In 2018, IAS had 41 collective members (IT companies) and around 500 individual members.

Review of activities

- round tables and 3 stands on the most current information technology in Serbia
- scientific expert lectures
- presentations of information technologies and services („Morning IT news“),
- Scientific Conference "INFORMATIKA 2018" (May 15, 2018)
- Assembly of the Informatics Association of Serbia (May 15, 2018)
- Marking 45 years since the establishment of the Informatics Association of Serbia (28.06.2018.)
- Organization of the meeting of the Informatics Day of Serbia - For digital Serbia
- Awarding DISC PLAQUE for the greatest achievements in informatics
- Organization of news gathering and editing of the ICT Bulletin in cooperation with RNIDS and Mineco Computers - during the year,
- Reorganization and maintenance of the site www.dis.org.rs, in cooperation with Yutro.com
- Thematic research on the situation in certain areas of IT (digitization, industry 4.0, piracy, eCommerce, SRB domain ...)
- Organization of the Working Group of the National Convent on the EU for Chapter 10 (information society and media)
- Activities of Teachers of informatics Section of IAS.
- Cooperation with competent state bodies, Serbian Chamber of Commerce and interested companies and associations in order to encourage digitization and more efficient and organized development of the information society in Serbia, to ease the use of eGovernment services, to expand e-business, to develop Internet services, to expand the use of Cyrillic in ICT use, the ethical codex of informatics, the use of payment cards, e-commerce and e-commerce, the faster development of telecommunication infrastructure, the application of standards in the field of ICT and G1 standard, the establishment of an information system on the state of computerization in Serbia.

13.13 Slovak Society for Computer Science (SSCS)

(Igor Privara, IFIP Representative of Slovakia)

Overview of Society

- The **mission of SSCS** is to contribute to favourable conditions for the development of informatics and information technologies in Slovakia. The imperative is the support of progressive information methods and technologies in all areas of Slovak economy. SSCS is constituted as the professional organisation covering all areas of informatics and information technologies, mainly theoretical and applied informatics, computer engineering, software engineering, information systems, communication systems and education. SSCS presents its statements and proposals to the state and public institutions and helps them in coordination and solution of the basic issues of the development of informatics and information technologies. SSCS enables the development of the young people in informatics supporting their participation in professional activities and organisation and support of competitions.
- **Webpage** of SSCS is www.informatika.sk

Key activities this year

- The biggest **event** was the General Assembly of SSCS in May which is held only once in three years. It has approved the focus of activity of SSCS for the next three years. SSCS wants mainly to influence the digitalisation of public administration, including the necessary legislation, strategic documents, standards and projects. To contribute to the improvement of the informatics education on primary and secondary schools and to increase the number of IT higher education students. To extend the project Digital Skills for Life on secondary schools in next three regions in Slovakia and participate on the EU project IT Academia. To initiate the national document on the development of digital skills in Slovakia. To support financially and in organisation of the informatics competitions and Olympiads including international. To increase the number of SSCS members and financially stabilize the computer society.
As SSCS president has been re-elected Milan Ftáčnik from Comenius University in Bratislava. The vice-presidents are Daniela Chudá from Slovak Technical University and Aleš Mičovský from IT company SOFTEC.
- There two **projects** in which SSCS is actively involved. The first is the project Digital Skills for Life carried out in Bratislava self-governing region. The projects bring four ECDL modules to 600 students of secondary schools in the region and 40 teachers in 18 schools. The project is funded by the budget of the region and will be finished after two years in 2018. The second project is the national EU project IT Academia focused on secondary schools and university students with the goal to increase their interest in STEM and IT subjects. Part of the projects in cooperation with SSCS provides digital skills with ECDL modules for 9.000 students in all regions of Slovakia without Bratislava. The project started in 2018 and will be implemented for 4 years.
- The strongest example of **social responsibility** is the support for the Olympiad in Informatics starting from the local rounds, eight regional

rounds and National Olympiad in March 2018. The winners will take part in the International Olympiad in Informatics in Japan. Slovak students usually score very successfully as proved by the gold, silver and bronze medals in last 25 years. SSCS supports the Olympiad by the organisation activities of its members and also financially.

- SSCS is actively cooperating with the **Government** in the implementation of the National Strategy of Digitalisation of Public Administration passed by the Slovak Government in 2016. SSCS members are the part of the working groups created by the Vice Prime Minister responsible for Informatics for the preparation of the implementation documents of the Strategy. SSCS president is the member of the Government Advisory Body on the Digitalisation of Public Administration and Single Digital Market where the documents must be approved. SSCS is recognized by the other partners for its contribution to the Public Procurement in IT working group and subgroup for Strategy of HR in public IT in the frame of the working group on Governance.

13.14 Institute of Information Technology Professionals South Africa (IITPSA)

(Rossouw von Solms, IFIP representative of South Africa)

Overview of Society / Institute (IITPSA)

IITPSA is a South African Qualifications Authority recognised professional body, and our professional designation (PMIITPSA) is registered on the National Qualifications Framework. Established in 1957, and registered on 01 April 1958, IITPSA aims to represent the interests of all ICT professionals in South Africa, fostering professional relationships with other like-minded organisations and setting standards of practice, conduct and ethics for the ICT profession. Memoranda of Understanding have been signed with ISACA (SA Chapter), ISC² (Gauteng Chapter), the South African Institute of Electrical Engineers, the South African Board for People Practice, etc. The Institute is also a recognised voluntary body of the South African Council for Natural and Scientific Professions.

Our total membership count has, at the end of July, just breached the 10 000 mark, with members found throughout the Republic of South Africa, as well as some neighbouring territories (albeit in quite small numbers) – e.g. Namibia, Botswana, Zimbabwe and Swaziland. Our main Chapters (or branches) are found in Johannesburg (Gauteng) and Cape Town (Western Cape), with smaller concentrations in Durban (KwaZulu-Natal) and Port Elizabeth (Eastern Cape).

Society / Institute's vision/mission statement

- **Vision:** To be the best at building and sustaining a professional ICT community.
- **Mission:** Being the authoritative voice of the ICT professional community in South Africa, that leads professional development and good practice in ICT.

Society / Institute's Website

Our Institute's main website is www.iitpsa.org.za

We also run a Women in IT Forum at www.womeninit.org.za

Technical Committee Involvement

IITPSA has appointed country representative in: TCs 2, 3, 6, 8, 9, 11, 12 and 13.

Key activities this year

Events

IITPSA hosts numerous Chapter and Special Interest Group events throughout the year, with our flagship event being the Annual President's Awards held in November. The awards aim to recognise excellence in the management, usage and practice of ICTs in South Africa.

One IFIP event was organised in South Africa during the past year.

1. IFIP Dewald Roode Information Security Workshop, Working Group (WG) 8.11/11.13, June 14-15, 2018, Cape Town, South Africa.

Projects

IITPSA has embarked on a drive to improve gender equality in our profession and has acquired the Women in IT Forum, which now operates under our umbrella as a

Chapter and is geared towards growing awareness and encouraging women to join (and remain in) the ICT profession.

We continue to work on activities and initiatives to grow the base of holders of our professional designation (one of which is the holding of professionalism / ethics / CPD workshops in major centres around the country).

IITPSA is collaborating with the Joburg Centre for Software Engineering at Wits University (JCSE) on an Annual ICT Skills Survey in the country, which is very well regarded.

Social Responsibility

In Jan 2017 IITPSA awarded its first ever full bursary to a young black woman studying first year computer science at the University of the Witwatersrand. This year, a second bursary award has been made to another young black women studying for a Bachelor of Commerce degree in Information Systems at the University of Cape Town. IITPSA also supports approximately five learners each year at secondary education level by enabling them to study the subject Information Technology online as their schools do not offer IT as a subject. In addition, IITPSA has made a significant research grant to a female Master's Degree student at the Nelson Mandela University in Port Elizabeth.

The Institute is also a major sponsor of the annual Computer Applications Olympiad. Both the Computer Applications Olympiad and the Computer Programming Olympiad are run as projects of IITPSA.

Government engagement/projects

IITPSA has nominated representation on the Broad-Based Black Economic Empowerment ICT Sector Council, the South African Bureau of Standards Technical Committees, the Media, Advertising, Information and Communications Technology Sector Education Training Authority (MICT SETA), the University Council of the Vaal University of Technology, and the IITPSA CEO is the current Interim Chairperson of the Governance and Security Chamber of the National ICT Forum which is constituted and run under the Department (Ministry) of Telecommunications and Postal Services.

13.15 Korean Institute of Information Scientists and Engineers (KIISE)

(Jee-In Kim, IFIP representative of South Korea)

Overview of Society

Korean Institute of Information Scientists and Engineers (KIISE) was founded in 1973 to propagate technologies of computer and information sciences in Korea and to promote amity among the members of KIISE

(<https://www.kiise.or.kr/academyEng/main/main.faEng>).

KIISE became a regular member of IFIP in 1977. Since then, it has been representing Korean scientists and engineers in computer and information sciences. It also established cooperative associations with many international organizations such as ACM, IEEE, IEEE Computer Society, IPSJ, CCF, IEICE-ISS and so on to promote international academic interchanges and collaborations.

As of March 2018, KIISE has more than 39,000 individual members, 149 special members, and 277 institutional members. KIISE publishes its research journals and periodicals about 50 times in a year including “Journal of KIISE” that was registered and appraised as the best journal in Korea by Korea Research Foundation (KRF) (currently, National Research Foundation of Korea (NRF)). It also publishes an international journal, “Journal of Computing Science and Engineering” (JCSE) (<http://jcse.kiise.org/main/default.asp>), which is a peer-reviewed quarterly journal that publishes high-quality papers on all aspects of computing science and engineering.

Several technical societies and committees are active in KIISE in the areas of databases, software engineering, information telecommunication, computer graphics, human computer interaction, artificial intelligence, computer systems, theories, programming languages, security, IoT, open source and so on.

KIISE holds regular and irregular academic conferences for over 60 times a year. Korea Computer Congress (KCC) and Korea Software Congress (KSC) are two major annual conferences of KIISE. It also holds international conferences such as International Conference on Big Data and Smart Computing (BigComp) and International Symposium on Perception, Action, and Cognitive Systems (PACS).

KIISE supports Korean students for their participating in many international competitions and contests in programming and research. It helps students who participate in International Olympiad in Informatics and the ACM International Collegiate Programming Contest (ICPC). Several domestic programming contests and paper contests are also hosted and operated by KIISE.

Key activities this year

- KCC (Korea Computer Congress)
(<http://www.kiise.or.kr/conference/kcc/2018/>) is the biggest annual conference hosted by KIISE in June. The conference offers keynote speeches, tutorials, panels, workshops, and technical sessions for presenting research papers.
- KSC (Korea Software Congress)
(<http://www.kiise.or.kr/conference/KSC/2017/>) is another annual conference hosted by KIISE in December. KCC and KSC are a pair of annual national conferences of KIISE. The goal is to provide the KIISE members with opportunities of exchanging academic information in the fields of software, computer science, information science and so on.

- BigComp (<http://www.bigcomputing.org/>) is an international conference hosted by KIISE and financially supported by IEEE Computer Society. The main topics are big data and smart computing. The first conference city was Bangkok, Thailand in 2014. It has been held in Jeju (2015), Hong Kong (2016), Jeju (2017) and Shanghai (2018). The next conference, BigComp 2019, will be held in Kyoto, Japan.
- PACS (International Symposium on Perception, Action, and Cognitive Systems) (<http://www.kiise.or.kr/conference/PACS/2017/>) is a premier venue for science and engineering for embodied cognitive systems, natural and artificial - that sense, act, feel, think, reason, communicate, learn and evolve in real-world environments. The goal of PACS is to bring international researchers from academia and industry together to present recent progresses and discuss new frontiers in interdisciplinary research and technology for embodied cognitive systems.
- SWCS (Software Convergence Symposium) (<http://www.kiise.or.kr/conference/swcs/2018/>) focuses on concurrent trends and future directions of software technology and its applications. The goal of the symposium is to bridge various people from academia, industry, government and society in the various fields of software and its application areas.
- iTIP (information Technology and Industry Prospects) (<http://www.kiise.or.kr/conference/iTIP/2018/>) aims to discuss current important issues and seek their solutions in the software industry. The goal is to find practical helps for the researchers, developers and entrepreneurs from the software industry in Korea.

13.16 Computer Society of Sri Lanka (CSSL)

(Yasas Abeywickrama, IFIP representative Sri Lanka)

The Computer Society of Sri Lanka (CSSL) which was established in 1976 is the apex body representing Information and Communications Technology (ICT) professionals in Sri Lanka. It promotes professionalism among those engaged in the field of ICT, and maintains the highest professional standards among the Information and Communication Technology fraternity.

The CSSL is a member of the South East Asia Regional Computer Confederation (SEARCC) and International Federation for Information Processing (IFIP). Locally, it is a member of Organization for Professional Associations (OPA).

National IT Conference (NITC) which has run for 35 years annually in Sri Lanka is organized by Computer Society of Sri Lanka. National Schools Software Competition (NSSC), which is a nation-wide software competition for school children is also conducted by CSSL. These activities ran smoothly in 2018.

In 2017, the CSSL was able to organize Sri Lanka's Biggest-Ever International ICT event in the history, which saw 50 countries coming to Sri Lanka to participate in a broad event platform that included the General Assembly of IFIP, SEARCC Conference, NITC and International Schools Software Competition. Now, NITC 2018 is also being organised, and this year Sri Lankan President His Excellency Maithripala Sirisena will be the Chief Guest.

CSSL Tech Talks are organized every month for discussion and knowledge sharing on latest technologies among ICT professionals. The CIO Forum is organized for the same purpose, however targets senior professionals such as Chief Information Officers and Head of ITs. CSSL ICT Awards recognizes best performers in the sector. IT Mastermind is a TV Quiz program run by CSSL to popularize ICT among school children and masses. All these activities have been organised with good participation and industry support.

The CSSL has recently started a social service arm called Little Drops of Water and a tech startup support initiative which includes providing its resources to tech startups.

The CSSL has taken a keen interest on lobbying and policy matters in the recent past. For instance, we were a key stakeholder when it came to recent discussions around Free Trade Agreements between Sri Lanka and other countries. We have also taken a keen interest around latest developments and discussions around social media and the need to maintain those platforms hate free and tackle other negative imperatives, whilst ensuring free access and freedom of speech. In this regard, the CSSL fully supports the work of Social Media Working Group of Sri Lanka.

The CSSL also has taken strong steps forward to strengthen its accreditation processes. It accredits local computing related degrees and in 2018 the CSSL was recognized by the Seoul Accord that our accreditation processes are globally acceptable. This another historic milestone for Sri Lanka.

In its' rich history of over four decades, CSSL has maintained a professionalism framework, and in 2018 it passed a key milestone by establishing CSSL Code of Ethics and Code of Conduct. This is a localized national professional framework for Sri Lankan ICT professionals.

The Code of Ethics and Code of Conduct is like the backbone of a professional association. Once members are inducted into the association recognizing them as professionals, their professional work is guided by having a professional framework in place which is termed as Code of Ethics and Code of Conduct. This gives a further assurance to the industry as well as for those who receive services of IT professionals that their behaviour is professional and ethical. Therefore, this is one of the major milestones to have strongly established for CSSL in its rich history of 42 years.

The National IT Conference (NITC 2018 – www.NITC.LK) is just around the corner, HE President Maithripala Sirisena will be our Chief Guest and the conference this year is at Shangri La Hotel, with a great line up of local and international speakers.

The CSSL website (www.CSSL.LK) also was revamped, after about 6 years. The old site had reasonable content on it but was old styled and wasn't mobile friendly. The new site is fresh, contemporary and is mobile friendly. I am glad that there have been both good feedback as well as constructive feedback about it. As with any new initiative, this is a project with a long process and has a lot of work involved, and you will see further improvements over time.

We continue to be relevant to the industry. For example, when the social media was banned in Sri Lanka, the CSSL came forward and organised a forum with all relevant stakeholders to discuss the future in relation to proper use of social media. Today, it has grown to be a broad multi-stakeholder ongoing working group. The CSSL still facilitates it, I Chair the group, however the working group functions as an independent group.

Our membership growth is happening at a similar rate over the last few years. Student Membership has seen exponential growth from last year due to new strategies taken by CSSL from 2017.

All in all 2017/18, has seen unprecedented growth and recording of historic milestones adding colour, strength and value to the rich journey of CSSL over 42 years.

13.17 Computer Society of Sweden (Dataföreningen)

(Jan Gulliksen, IFIP representative of Sweden)

The Computer Society of Sweden is a non-profit and independent association that works for the positive development of digitization opportunities. This is done by spreading and raising Swedish IT skills at all levels; society, the business, the employee and the individual. Every year, the Computer Society of Sweden arrange over 400 skills-enhancing networking meetings in current and inspiring areas; breakfast meetings, company visits, courses, seminars, lectures and much more. The members are given the opportunities to develop skills and expand the professional network as well as supporting the work towards the vision of the Computer Society of Sweden: that digitization should be a potential for all.

The Computer Society of Sweden actively work with the issues identified as important in different networks, digital labs and working groups as well as through strategic partnerships. The innovation platform DF Innovation is crowdsourcing and looking for solutions to the challenges of digitalization. The organization is a referral body for politics and policy making and has undersigned the Swedish Digital Agenda and initiated knowledge dissemination about the possibilities of digitization from the perspective of the individual, employee, business and society. The vision is that digitization should be a potential for all.

Overview of Society

- Vision statement of the Computer Society of Sweden:

Digital destination Sweden - a digitization that strengthens man

The vision of data society is a sustainable, democratic and humanistic society, where digitization allows everyone to influence and improve their lives. By strengthening individuals' digital skills in both private and professional life, we also strengthen companies, organizations and society. With digitally competent individuals and organizations we can reach our vision.

The data association is an association of interests that acts from the perspective of the individual. It is individuals who run social development at all levels - such as customers, users, employees, leaders, politicians and not least citizens. Therefore, the individual's digital skills are central to successful digitization that can fulfil our vision.

Digital destination Sweden is about building a society based on the changes we see that can fulfil our vision. A sustainable society in this context encompasses both environmental and human aspects.

We are all heading into the digital transformation. Therefore, we need to strengthen individuals' digital skills and abilities on multiple levels and in different roles. This can be expressed as different digital travel.

The individual's digital journey - The goal is for individuals to fully master the opportunities offered by digital services and devices in their privacy. Individuals should also be able to create values and take responsibility for direct value creation.

The employee's digital journey - The goal is for employees in companies, organizations and public entities to have such digital skills and ability that businesses can take maximum advantage of digitization. In order to be able to innovate, streamline and develop competitive value offers and business models.

Business and Operator Digital Travel - The goal is for leaders in companies, organizations and public entities to be able to continuously create new values in markets and in public activities through digital transformation and digitally driven business models.

The Politician's Digital Travel - The goal is politicians with the ability to create the prerequisites for digitization to provide all the possible feasible effects for both the business and public sectors. This means insight into the technology's impact on social development and how this influence can be controlled.

And perhaps primarily from the data association's perspective, the IT developer's digital journey. Traditionally, the association has been an association for IT professions. As digitalization controls the whole of society, IT professions have gained a greater role and greater responsibility.

The goal is IT professionals with a high level of professional skills that innovate develops and maintains digital applications and digital infrastructure, and actively contributes to the development of technology areas that make digitization possible. It is crucial that the IT workforce's ability develops in line with the evolution of digitalization.

- <https://dfs.se>

Key activities this year

To accomplish the vision and mission, the Swedish Computer Society has a number of forms of action.

- Working Groups (AG)
 - Solves a specific industry problem, answering a current industry issue
 - Resulting in a report, guide or a PM
- Digital Lab (DL)
 - Exploring new technology or new concepts.
 - Finds usefulness and applications
 - Building prototypes
- Project Groups (PG)
 - Carry out a project with an impact goal
- Competence Network (KN)
 - Networks for skills transfer and experience exchanges
- Premium Network (PN)
 - Network with admission requirements within selected roles
 - In-depth exchanges
 - Common problem solving
- DF innovation platform
 - Groups identify challenges
 - Members suggest solutions
 - Winning solutions are funded with crowd-funding and implemented as projects
 - Winning solutions can also be implemented as non-profit projects

- DF Opinion
 - Think tank
 - Platform for communication
- Business intelligence
 - Digital news services
 - Own editorial platform - DF Analysis
 - Reports from analysts

Swedish membership in the different technical committees

- Swedish member of the IFIP GA, General Assembly – Jan Gulliksen
- TC 1, Foundation of Computer Science – No representative
- TC 2, Software Theory and Practice – No representative (suggested: Ivica Crnkovic)
- TC 3, Education – Lena Olsson
- TC 5, Information Technology Applications – Jad El-Khoury
- TC 6, Communication Systems – Gunnar Karlsson
- TC 7, System Modelling and Optimization – No representative
- TC 8, Information Systems – Anna Ståhlbröst
- TC 9, Relationship between Computers and Society – Christina Mörtberg
- TC 10, Computer Systems Technology – Jan Torin
- TC 11, Security and Protection in IP Systems – Simone Fischer-Huebner
- TC 12, Artificial Intelligence – Amy Loutfi
- TC 13 Human Computer Interaction – Jan Gulliksen
- TC 14 Entertainment Computing – Annika Wærn

13.18 Schweizer Informatik Gesellschaft (SI)
(Raymond Morel, IFIP representative of Switzerland)


	<p>Geneva, 10th of September 2018</p> <p>IFIP General Assembly 23-24 of September</p> <p>National Report September 2017 - August 2018</p> <p>Country: SWITZERLAND</p> <p>Representative : Raymond MOREL (CH) Swiss Reps at IFIP GA and member of ILC, DEC, MSA and board of IP3 Raymond.Morel@unige.ch</p>
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- **The SI (Swiss Informatics Society) :**
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- **Miscellaneous - AOB – References**

The full report : <http://www.ict-21.ch/com-ict/IMG/docx/v6-report-GA-18.docx>

13.19 Ukrainian Federation of Informatics (UFI)

(Igor Grebennik, GA Representative Ukraine)

Overview of Society

“UFI” HAS THE FOLLOWING GOALS:

- The promotion of IT in scientific-research activity and education, its application and increase of a level of knowledge in this area,
- Association of efforts and means of “UFI” participants for assistance to creation a modern information infrastructure with the ramified network of information communications and the distributed systems of data processing in Ukraine,
- Modeling and analysis of solutions, sufficing the needs of a society, ensuring it by methods of the system analysis, necessary means of computer facilities and automation,
- Forming of the information technology market in Ukraine and its integration in the world IT market,
- Providing of various educational services to the population, wide engaging of Ukrainian public to deriving knowledge and qualifications in use of modern information technologies.

Link to Website

<http://ufi.org.ua:8090/?lang=en>

Which Technical Committee Working Groups do your members participate in?

- UFI representative in TC 1: Foundations of Computer Science: Mykola Nikitchenko, D Sc, Prof., Head of Department of theory and technology of programming, School of Cybernetics, T. Shevchenko Kyiv National University, e-mail: nikitchenko@unicyb.kiev.ua .
- UFI representative in TC 2: Software: Theory and Practice Nikolay Sidorov, D Sc. (Engineering), Prof. Dean of Computer Science Faculty, Head of Software Engineering Chair, National Aviation University, Kiev, Ukraine ph. +38 (044) 4067396, fax: +38 (044)4978106, e-mail: nikolay.sidorov@livenau.net .
- UFI representative in TC 3: Education Tetyana Kovalyuk, Ph.D., associate professor of Department of Automatic Information Processing and Control Systems of National Technical University of Ukraine Kiev Polytechnic Institute, +38044 454-98-47, *E-mail*: tetyana.kovalyuk@gmail.com .
- UFI representative in TC 8: Information Systems Dubovoy Volodymyr, D Sc, Prof., Vinnytsa, Vinnytsa national technical University, chair of computer control systems department, v.m.dubovoy@gmail.com .

Key activities this year

Events

IFIP Board meeting 9–11 March 2017 in Kyiv.

To IFIP Board meeting Ukrainian Federation of Informatics in cooperation with IFIP leadership by support of the Committee for Informatization and Communications of the Verkhovna Rada of Ukraine, Association “IT Ukraine”, the leading IT companies in Ukraine prepared a series of events, held in Kiev 9–11 March 2017 at Kyiv National University of Culture and Arts and in laboratories of IT-companies Miratech and Luxoft. Within the international event, students and teaching staff of the universities of Ukraine had the opportunity to communicate with the leaders of IFIP

on topical issues on the development and application of IT and listen to lectures of famous scientists.

Annual congress of the Ukrainian Federation of Informatics

On December 22, 2017, the regular congress of the Ukrainian Federation of Informatics took place in the premises of the Institute of Cybernetics of the National Academy of Sciences of Ukraine.

President of UFI, academician of the National Academy of Sciences of Ukraine Prof. Ivan Sergienko supervised the work of the UFI Congress.

The congress was attended by UFI leaders and delegates from different regions of Ukraine. The actual problems of the development and operation of the UFI were introduced, amendments were made to the Federation Statute, and new members of the UFI were elected.

Mykola Roenko, President of Miratech – a leading Ukrainian company in the field of IT and outsourcing, was unanimously elected as the Vice-President of the Ukrainian Federation of Informatics.

UFI welcomes the participation of representatives of IT business in the work of the Ukrainian academic IT community and hopes for a fruitful cooperation between IT business and IT education.

VII International Scientific and Technical Conference "Information Systems and Technologies"

From September 10 till September 15, VII International Scientific and Technical Conference "Information Systems and Technologies" is taking place in the village of Koblevo of Mykolaiv region. The event is dedicated to the 55th anniversary of the two chairs of the Kharkov National University of Radio Electronics - the Department of Applied Mathematics and the Department of Software Engineering. UFI is co-organizer of the Conference.

More than 120 reports from Kharkiv, Kyiv, Odessa, Lviv, Ivano-Frankivsk, Vinnytsia, Ternopil, Dnipro, Zaporizhzhia, as well as from Belarus, Poland and Canada will be heard within the framework of the event.

Projects

The Ukrainian Federation of Informatics is discussing projects [of educational standards](#) in the specialty 122 – Computer Science.

13.20. Hamdan Bin Mohammed Smart University (HBMSU)

(Mansoor Al AWAR, IFIP representative of U.A.E)

Vision: To lead the smart learning innovation for re-engineering the future of education aimed at the advancement of individuals, organizations, and society.

Mission: We are an academic enterprise which enables knowledge creation and application through innovation, disruption, and transformation. We provide unique life-long learning opportunities, intellectually stimulating learning experiences and diverse community of faculty, staff, learners, and alumni.

Link to Website: <https://www.hbmsu.ac.ae>

Which Technical Committee Working Groups do your members participate in?
None

Key activities during 2017-2018:

❖ Annual Congress:

○ Innovation Arabia 10 - 2017:

HBMSU conducted the 10th edition of the “Innovation Arabia” Annual Congress under the theme “Innovation and Entrepreneurship: The Engines of Sustainability”. Innovation Arabia congress ran 4 main conferences in the areas of Smart Learning, Quality & Business, Environment & Healthcare and Islamic Banking & Finance.



The outstandingly organized Smart Learning Conference featured two keynote speakers: Gard Titlestad, Secretary-General of the International Council for Distance Education, who spoke about ‘Learning - Now is the Future,’ and Steven Duggan, Board Member of the UNESCO Institute for Education Information Technology, who presented innovative strategies for ‘Bridging the Next Digital Divide’. The training workshop on ‘Empowering Technology Tools for Education’ was commended for providing an important opportunity to learn more about advanced technologies for improving the learning process by focusing on the skills required for achieving success in the Age of Knowledge.

○ Innovation Arabia 11 – 2018:

In its 11th edition, of Innovation Arabia announced Innovate, Disrupt and Transform as the theme for 2018. This theme highlights the growing need for sustainability in the Arab World through innovative ideas anchored in creativity and entrepreneurship. Innovation Arabia 11 provided an ideal platform to exchange



leading-edge ideas, discuss challenges and explore solutions for the development of sustainable economies in the Arab World through innovation. The

conference hosted four parallel tracks; business and quality management, Islamic banking and finance, smart learning and health and environment. IA11 also featured many other activities including an awards ceremony, hands-on workshops and many formal and informal networking opportunities.

The Smart Learning Conference featured three main keynote speakers; Prof. Asha Singh Kanwar, President and CEO, The Commonwealth of Learning, Dr. Fengchun Miao, Chief, Unit for ICT in Education- Education Sector, UNESCO Headquarters and Dr. Speaker: Dr. Petar Stojanov, Founder and Managing Partner, Ebtikaar. The keynotes revolved around the theme of “Disruptive Innovations: Leading the Future of Smart Learning”.

❖ **Launch of a coding program “Emirati programmer”:**

HBMSU in partnership with Emirates Talent Association in Dubai and in collaboration with Microsoft, Google and Apple had officially launched the “Emirati Programmer” initiative. This innovative program provided training on programming and coding through designing games, digital and electronic applications using Microsoft, Google and Apple software to talented students between the age of 7 and 15 years. The program depends on self-learning system and sources of learning within the classroom, providing greater flexibility for students by attending lessons, whether in the classroom or online by using any modern internet browser on smartphones, tablets and PCs. The program is composed of three levels; the first level offers ‘Introduction to Computer Programming Certificate,’ which provides students with the basics of computer programming skills, while the second level awards ‘Digital Games and Applications Development Certificate,’ cantering on the idea to create electronic applications and games. The third level enables students to obtain ‘Advanced Level of Developing Electronic Games and Applications.’ The program also organized the “Hackathon” a computer Language Programming Competition’, allowing students the opportunity to compete for the title of the “Innovative Programmer”. In the first round of the awarding ceremony for the ‘Emirati Programmer’, 69 unique talents who successfully completed the three stages of the program were recognized.

In the second session of the ‘Emirati Programmer 2018’ 145 talented students registered in the program, including students from ‘Artificial Intelligence’ who completed the first session of coding program, along with a new batch of students in the field of games & applications programming. Twelve students reached the finals in the Hackathon, which strongly boosted the Emirati talents participating in the global competition in programming and Artificial Intelligence.

❖ **Strategic partnership between HBMSU Cloud Campus and Starbucks Initiative:**

○ HBMSU Cloud Camus:

Cloud campus is a social smart learning Initiative which was launched by HBMSU in 2013 to provide world class learning opportunities for everyone. This innovative solution is in line with H BMSU’s vision and its commitment to provide a convenient learning environment that is utterly engaging and interactive. It disseminates knowledge through 60-90 second videos using the innovative micro-learning method for maximum knowledge retention. With over 5,000 courses covering professional business skills, digital tools and applications supported by a community of experts & learners.

- Cloud Camus in partnership with Starbucks:

HBMSU launched the Social Smart Learning initiative (Cloud Campus) across 27 Starbucks stores in the United Arab Emirates. The joint initiative between HBMSU Cloud Campus and Starbucks aims to foster a culture of learning and knowledge. HBMSU and Starbucks collaborated for this pioneering initiative as part of their respective Corporate Social Responsibility (CSR) programs focusing on transferring and enriching knowledge in the UAE. Both parties aim to help hurdle learning obstacles, offer opportunities to facilitate easy access to information, and enhance the teaching and learning processes through the aid of the latest technological tools. By using HBMSU's Cloud Campus, Starbucks clients can have a free and direct access to a virtual library for a wide array of interactive resources, including more than 5,000 illustrated lectures as well as references and educational courses in business, science, and creative and professional skills.



❖ **Soft launch of the first offering learning in a digital age is a partner with OERu:**

HBMSU is associated with the Open Education Resource universitas (OERu), an international network of innovative higher education institutions inspired by the vision of opening access to a credible, high-quality, and affordable education to learners around the world.



Recently, a “soft-launch” took place of the OERu 1st year of study; the OER Foundation launched the first offering of Learning in a Digital Age comprising micro-courses. The pilot attracted 703 registered participants from 60 different countries. The OERu open technology platform performed well and we are now proceeding with the launch of the remaining courses for the 1st and 2nd year of study and preparing to scale-up operations to attract a larger number of learners. This initiative provides learners with the opportunity to develop knowledge, skills and confidence to become a competent and autonomous learner in a digital age and earn credits towards globally recognized qualifications through the partner institutions.

❖ **Launching the Artificial Intelligence School:**

HBMSU launched the school of Artificial Intelligence, which was established in anticipation of the demand for the new set of skills required for the future. The school, one of the UAE's forward-looking initiatives and strategies, will offer Master's degrees in Robotics, Data Science, and Game Design, in addition to numerous relevant programs and professional diplomas. The launch of the school of Artificial Intelligence gives strong impetus to develop and innovate smart learning skills that match the future needs of smart education, as well as establish a solid base for innovation.

HBMSU contributed and supported the following international conferences:

- Participating and sponsor in the UNESCO's Mobile Learning Week - Paris: HBMSU participated and sponsored the Mobile Learning Week (MLW) 2017 held at the UNESCO



headquarters in Paris, France under the theme 'Education in Emergencies and Crises. Dr. Mansoor Al Awar, the University Chancellor and the Chairman of the Governing Board, UNESCO Institute for Information Technologies in Education presented an ambitious international project for providing quality learning to refugees using HBMSU's proven innovative and 'smart' teaching methodologies based primarily on the Lifelong Learning Model. Dr Al Awar's presentation on 'Education for All: Smart Learning Creates the Future' provided in-depth insights on the role of smart learning in reshaping the future and providing education for everyone in keeping with the UN's Sustainable Development Goal of 'Ensuring Equitable and Inclusive Quality Education for All. The Chancellor shed light on HBMSU's proactive efforts to reshape the future of higher education in the Arab World through innovative and smart learning approaches that meet the requirements of the 21st century. HBMSU

- Participating in the World Conference for Online Learning – Toronto:

During the latest World Conference for Online Learning held in Toronto, Canada, Dr. Mansoor Al Awar, Chancellor of the Hamdan Bin Mohammed Smart University (HBMSU) and Chairman of the Governing Board of the UNESCO Institute for Information Technologies in Education (IITE) shared HBMSU's successful transformation into an international role model.



The model provides the best education for the creators and innovators of the future. He shed light on the university's achievements in developing an integrated system for reshaping the future of education in the Arab World in line with the requirements of the 21st Century. He discussed these during a speech delivered in front of 1,000 decisions makers, policy makers, academics, experts, researchers, consultants and educational technology industry leaders participating at the conference. The conference hosted by Contact Nord University, which ran under the theme 'Teaching in The Digital Age – Re-Thinking Teaching & Learning.'

HBMSU has presence in international networks and working groups:

- Member of ICDE working group:



ICDE, the International Council for Open and Distance Education is the leading global membership organization for online, open and flexible education. ICDE invited members to submit an Expression of Interest for participating in its different Working Groups. HBMSU is currently a member in the ICDE Working Group on Code of Conduct for Ethics in Learning Analytics.

- ICDE Quality Network:

The ICDE Executive Committee established the Quality Network by the appointment of Focal Points on Quality. The Focal Points on Quality (FPQs) have a leading and coordinating role for quality work in their respective regions. HBMSU was selected to represent the Arab region.

Other activities:

- Incorporation of Gamification within HBMSU virtual learning environment (Rewarding System):

HBMSU was successful in applying gaming elements to its virtual learning environment (VLE) by creating list of achievements that learners are encouraged to complete. This initiative helped learners to focus on improving their academic records and target higher grades; moreover, it helped HBMSU to make the e-learning experience more engaging and fun.



➤ Information Security Management System (ISMS) Certification:

HBMSU is one of the few educational institutes to attain the ISMS ISO Certificate. The goal for attaining this certificate is to minimize risk and ensure business continuity by pro-actively limiting the impact of security breaches.

➤ Smart Portfolio platform for HBMSU learners:

The Smart Portfolio is a digital portfolio and career readiness network which is designed for HBMSU learners and alumni to be a key pillar in their study experience. It is a digital storage, where they can create and collect their intellectual work and achievements. Also they can show exemplars of work and reflect on their own-posted work or instructor's feedback. HBMSU is planning to open the platform for the employers and investors to view learners and Alumni's profiles so they can recruit those who proof their skills on display.

13.21 British Computer Society (BCS)

(Andrew McGettrick, IFIP representative of UK)

Overview of Society

To quote from the Institute's Annual Report and Consolidated Financial Statements, dated August 2017:

The Institute is incorporated by Royal Charter and is a registered Charity [..]. Its objectives are prescribed by the Royal Charter and the main objective is 'to promote the study and practice of computing and to advance the knowledge and education therein for the benefit of the public'. It serves three main constituencies: IT professionals, employers of IT professionals and society at large. Its governing documents are the Royal Charter, Bye-Laws and regulations.

The Society operates through a number of Boards/Committees: the BCS Academy of Computing, the Community Board, the Organisation and Employers Board (new), the Society Board (new), the Registration and Standards Committee, the Risk Audit and Finances Committee, and the BCS Council represents the members and comments on the direction of the Society. The overall purpose is seen as 'making IT good for society'.

The number of members in 2017 was 72,191 (compared with 71,025 in 2016).

BCS website www.bcs.org

Technical committee involvement

(A rough outline of) UK involvement in IFIP Technical Committees and Working Groups is identified in Annex A.

Key activities this year

Events

During the year the Institute ran more than 700 events within the member group communities. The events included the UK IT Industry Awards event which was held at the Battersea Park Events Arena.

An IT-impact event featured the Royal College of Nursing's Nurse of the Year and the National Director of Operations and Information for England. This provided the backdrop to the creation of Fed-IP (see fedip.org and see below).

Projects

There are various projects to mention, all run under the BCS Academy of Computing, and indeed the Computing At School initiative (CAS) within the Academy:

- CAS membership: Membership reached over 27,000 in August 2017. Over 80% are school teachers, the remainder being academics or IT professionals
- Network of Teaching Excellence in Computer Science (NoE): Funded by the UK Department of Education this is to encourage schools towards excellence in their teaching of computer science. In the year 1st April 2016 to 31st March 2017 it provided 46,700 teacher hours of CPD and support to 14,000 teachers in 5,400 schools.

- BCS Teaching Scholarships: This government grant is to run teaching scholarships for trainee computing teachers, each scholarship being worth £27,500
- Tenderfoot Computing Project: Funded by Google, this is to provide resources to be used as part of NoE (see above)
- Barefoot Computing: Funded by the Department of Education this is to demonstrate how learning in English, Mathematics, Science and History can be improved through the teaching of computer science. Barefoot Computing in Scotland is an extension of the above that operated in Scotland
- Quantum: 'tests worth teaching to': This is funding from Microsoft, Google and ARM so that teachers can develop and refine classroom teaching materials
- BCS Shadbolt review: This government initiated review of Computer Science degree accreditation resulted in the BCS piloting a new accreditation scheme at the University of Bath.

Social Responsibility

The Institute continues to issue the Chartered Engineering (CEng), Chartered IT Professional (CITP) and Chartered Scientist (CSci) designations to members who are suitably qualified. Part of the role of the Chartered status is to provide the public with the confidence that individuals possess the competence necessary to carry out tasks.

The Registration and Standards Committee maintains oversight of the Chartered IT Professional status and Registered IT Technician as well as policies regarding membership of the Institute.

During the year the health services experienced the 'Wannacry' cyber attack and the BCS response built on contributions from specialist groups, the security community as well as volunteers, members and partners.

The new Society Board will take on special responsibility in this area.

Thought Leadership

Four immediate challenges for the Institute have been identified: Education, Capability, Personal Data and Health & Care. Of these

- Education: relates to the education of every child and in particular their proficiency in computing
- Capability: about supporting members through training courses etc and this has involved the Institute in becoming involved in the technician and apprenticeship arenas
- Personal data: concerned with raising awareness of issues associated with the collecting and the use of personal data
- Health & care: addresses the challenging area of health informatics where the Institute wishes to be seen to be active and to contribute

Government engagement/projects

The Federation for Informatics Professionals (Fed-IP) in Health and Social Care was formally established to bring together individuals and organisations to share knowledge, promote standards and unlock potential in the informatics community.

Explanatory Note

The information contained herein relies heavily on the BCS Annual Report and Consolidated Financial Statements for the year ended 31st August 2017.

13.22 Computer Society of Zimbabwe (CSZ) (Lawrence D Gudza, IFIP GA Country Representative)

Overview of Society

The Computer Society of Zimbabwe was established in 1974 with the principal objective to be of benefit to the ICT industry and all people who work in ICT. In its pursuit of promoting knowledge CSZ established Special Interest Groups (SIGs) whose mandate is to promote software development skills and now includes widespread accessibility to ICT in particular via smartphones.

Some of the principal aims of the Society are the following:

1. To promote knowledge to members of the Society and the general public with regard to the development and use of Information Technology.
2. To ensure that, in the development of Information Technology systems, due and proper regard is paid to the rights and privileges of the general public.
3. To encourage research and development in, and to actively seek to improve techniques and knowledge of, Information Technology and to disseminate this information among members of the Society and the public through the medium of journals, circulars, publications, lectures, seminars, conferences, or by any other method which the Society may from time to time deem fit.
4. To establish professional standards for persons employed in the field of Information Technology and to ensure that these standards are maintained.
5. To encourage the integration of Information Technology plans and programmes in the national programmes for development of science and technology.
6. To establish and maintain active linkages with local and international associations and bodies sharing similar objectives to those of the CSZ.

Vision:

To be the trusted industry body anchored on professional knowledge driving the ICT Ecosystem in Zimbabwe.

Mission:

To champion the development of the ICT industry in Zimbabwe by establishing beneficial relationships and providing independent professional counsel for the benefit of members, government, industry and society.

Link to Website <http://www.csz.org.zw>

Which Technical Committee Working Groups do your members participate in? TC 11

Key activities this year

A key activity this year was the society's Summer school which was themed "ICTs are critical tools for promoting human development, and reducing inequalities". The event was attended by senior level stakeholders from business, government, academia and the non-governmental bodies such as the UNDP, FAO and several local and regional research bodies. IFIP was represented through Mr. Anthony Wong, then President of Australia Computer Society and Moira de Roche IP3 chair.

- Events
 - The Computer Society through its chapters holds monthly functions in the two cities where Chapters have been established – Harare and Bulawayo.

- The Computer Society has two flagship events during the year. These are the Business School and the Summer School.
- A Special Interest Group (SIG) - holds regular technology focussed functions in various university towns
- Projects
 - CSZ is involved in ICDL centred program development for growth in the various markets.
 - CSZ advises the Ministry of ICTs on policy and related issued
 - CSZ advises the Cyber Security organ within the President's Office
- Social Responsibility
 - The Society contributes by way of annual awards to educational institutions like the Bulawayo and Harare Polytechnic Colleges as well as the various schools.
 - The Society also supports orphanages or the disadvantaged.
- Thought leadership

CSZ has been requested to partner with an Internet Access Provider in the various services provision projects
- Government engagement/projects
 - CSZ sits on the ICT policy advisory boards of government
 - CSZ works with the President's Office on Cyber Security issues.

14. Technical Committee Reports

The following Technical Committee reports are summarised from those presented to the 2018 General Assembly by the Technical Committee Chairs.

Copies of the full reports are available on request to the relevant chairs or from eduard.dundler@ifip.org.

14.1 TC1: Foundations of Computer Science

(Jacques Sakarovitch, Chair of TC1)

Working Groups

WG 1.2: Descriptive Complexity
WG 1.3: Foundations of System Specification
WG 1.5: Cellular Automata and Discrete Complex Systems
WG 1.6: Rewriting
WG 1.7: Theoretical Foundations of Security Analysis and Design
WG 1.8: Concurrency Theory
WG 1.9: Verified Software (joint with WG 2.15)
WG 1.10: String Algorithmics & Applications

Changes of Officer in 2017-18

The WG1.6 and WG1.8 chairs have been re-elected for second terms. TC1 is still missing a secretary. The search for the next TC Chair is under way but is proving not to be simple.

Principal Activities

Working Groups are the place where the scientific activity of TC1 takes place. They all have either their own flagship conferences (WG1.2, 1.3, 1.5) or they are deeply involved in the organization of conferences with which they collocate their own workshops and business meetings (WG1.3, 1.6, 1.7, 1.8, 1.9).

After the discussion at the 2015 business meetings, four of these conferences are now regularly registered as IFIP events, which is a significant increase from the past.

WG1.10 has been dormant for the last two years. Ways to bring it back to activity are being considered.

14.2 TC2: Software: Theory and Practice

(Jerzy Nawrocki, Chair of TC2)

Working Groups

WG 2.1: Algorithmic Languages and Calculi
WG 2.2: Formal Description of Programming Concepts
WG 2.3: Programming Methodology
WG 2.4: Software Implementation Technology
WG 2.5: Numerical Software
WG 2.6: Database
WG 2.7: User Interface Engineering (joint with WG 13.4)
WG 2.8: Functional Programming
WG 2.9: Software Requirements Engineering
WG 2.10: Software Architecture
WG 2.11: Program Generation
WG 2.13: Open Source Software
WG 2.14: Service-Oriented Systems (joint with WG 6.12/8.10)
WG 2.15: Verified Software (joint with WG 1.9)
WG 2.16: Programming Language Design

Changes of Officer in 2017-18

IFIP TC2 officers, elected in 2017 and approved subsequently by IFIP:

- Chair: Prof. Jerzy Nawrocki, Poznan University of Technology, Poznan, Poland
- Vice-Chair: Prof. Michael Goedicke, University of Duisburg-Essen, Germany
- Secretary: Dr. Julia Lawall, Sorbonne Universities/Inria/LIP6, Paris, France

New chairmen of working groups:

- WG2.8: Steve Zdancewic (University of Pennsylvania, USA)
- WG2.16: Tijs van der Storm (CWI, The Netherlands)

Principal Activities in 2017-18

The committee supported the nomination of Michael Goedicke to the IFIP Service Award for his activities as the past TC-2 Chair.

IFIP World Computer Congress

Robert Wrembel and Jerzy Nawrocki played major roles in the organisation of the IFIP WCC in September 2018 in Poznan. This included recruiting conferences and working groups to participate.

Recent TC2 conferences

ESOCC was held in Como, Italy. OSS was held in Athens.

No Manfred Paul Award was made in 2017. In the future Will Tracz will be in charge of the award.

Future Activities

We are looking into whether co-locating the next TC2 meeting with ICSAE 2019 (Montreal, May 25 – 31 2019) would be possible.

14.3 TC3: Education

(Sindre Røsvik, Chair TC3)

TC3 members are deeply involved in computer science, informatics and ICT in education broadly spoken. Several members are involved in UNESCO activities, EDUsumMIT, IOI (International Olympics in Informatics), ISES (Information Security Education & Solidarity) and activities focusing on developing computer science etc. Our aim is to develop further the relations with UNESCO and with IOI. However there has been no real progress with the IOI cooperation as planned.

TC3 emphasizes an increased focus on doctoral students by including doctoral consortiums at our events, with special attention to students from developing countries. In Dublin the doctoral consortium was a success and 10 applied for grants to attend OCCE 2018 whereof 4 were offered a € 500 DCSC grant.

TC3 has a permanent connection with UNESCO:

- UNESCO representative in TC3: Zeynep Varoglu
- TC3 chair Røsvik and Bernard Cornu (Liaison) follow up co-operation initiatives
- Bernard Cornu is liaison contact.

The Education and Information Technologies journal is the official journal of TC3. Bernard Cornu is a member of the IFIP ILC (International Liaison Committee).

Working Groups

WG 3.1: Informatics and digital technologies in School Education

WG 3.3: Research into Educational Applications of Information Technologies

WG 3.4: Professional and Vocational Education in ICT

WG 3.7: Information Technology in Educational Management

Principal Activities in 2017-18

OCCE 2018. A joint event for all TC3 WGs was successfully organised in Linz in June 2018. The event was attended by approx. 100 participants and had approx. 60 paper presentations and 2 symposia. The papers held a high standard. The symposia offered paper presentations, fruitful discussions and input from the audience. A UNESCO symposium summed up activities during some time and pointed forward to coming directions. A book of selected papers will be published with Springer. WG3.1, 3.3 and 3.7 held their AGMs during the event.

Future Activities

The following future events are planned:

2019: TC3 conference in Zanzibar, Tanzania April/May

WG 3.1 Workshop: Computational thinking in Paris 4-8 June

2020: Workshop (WG 3.1 & WG 3.3) in Melbourne

Planning workshops in Botswana and Delhi, India

2021: WCCE 2021 Hiroshima, Japan

2022: Event in Belgrade, Serbia – to be investigated

2023: Event in Morocco - to be investigated

The next annual meeting of TC3 is planned to take place in Zanzibar in May 2019. WG3.7 will organise an event at the TC3 open conference in Tanzania, Zanzibar and a conference in India in 2019/2020.

14.4 TC5: Information Technology Applications

(Tadeusz Czachórski, Chair of TC5)

Working Groups

WG 5.1: Global Product Development for the whole life-cycle

WG 5.4: Computer Aided Innovation

WG 5.5: Cooperation infrastructure for Virtual Enterprises and electronic business

WG 5.7: Advances in Production Management Systems

WG 5.8: Enterprise Interoperability

WG 5.10: Computer Graphics and Virtual Worlds

WG 5.11: Computers and Environment

WG 5.12: Architectures for Enterprise Integration

WG 5.13: Bioinformatics and its Applications

WG 5.14: Advanced Information Processing for Agriculture

Changes of Officer in 2017-18

The new Chair of WG5.10 is Andres Iglesias, University of Cantabria.

Principal Activities in 2017-18

Meetings of TC5:

57th IFIP TC5 Full Meeting: October 2017, 6th , Krakow, POLAND

IFIP TC5 EXCOM Teleconference, June 20, 2018, 12:00-14:00 (GMT)

58th IFIP TC5 Full Meeting: September 22th, Poznan 15.00-19.00 POLAND

The following IFIP events were organised:

3rd IFIP Conference on Information Technology in Disaster Risk Reduction, ITDRR-2018, TC5, 20/09-21/09 2018, Poznan, PL Dimiter G. Velev,

19th IFIP/Socolnet Working Conference on Virtual Enterprises, PRO-VE 2018, WG5.5, TC5, 17/09-19/09 2018, Cardiff, GB, Luis M. Camarinha-Matos,

Advances in Production Management System 2018, APMS 2018, WG5.7, TC5, 26/08-30/08 2018 Seoul, KR, Ilkyeong Moon,

15th International Conference on Product Lifecycle Management, PLM2018, WG5.1, TC5, 01/07-04/07 2018, Torino, IT, Abdelaziz Bouras,

16th IFAC Symposium on Information Control Problems in Manufacturing INCOM2018, WG5.7, TC5, 11/06-13/06 2018, Bergamo, IT, Marco Macchi,

International Conference on Computer Intelligence and Its Applications, CIIA, TC5, 06/05-08/05 2018, Oran, DZ, Otmane Ait Mohamed,

Doctoral Conference on Computing, Electrical and Industrial Systems DoCEIS'18 WG5.5, TC5, 02/05-04/05 2018 Caparica (Lisbon), PT, Pedro Miguel Ribeiro, Pereira,

Interoperability of enterprise systems and applications, I-ESA, WG5.8 TC5, 19/03-23/03 2018 Berlin, DE, Frank-Walter Jäkel,

The 8th International Precision Assembly Seminar 2018 IPAS 2018, WG5.5, TC5, 14/01-16/01 2018, Chamonix, FR, Professor Svetan Ratchev6,

International Conference on Application of Information and Communication Technology and Statistics in Economy and Education, ICAICTSEE 2017, TC5, 03/11-04/11 2017, Sofia, BG, Dimiter G. Velev,

12th OTM International Workshop on Enterprise Integration, Interoperability and Networking EI2N, WG5.8, TC5, 25/10-26/10 2017, Rhodes, GR, Georg Weichhart

2nd IFIP Conference on Information Technology in Disaster Risk Reduction ITDRR-2017, TC5, 25/10-27/10 2017, Sofia, BG, Dimiter G. Velev,

Future Activities

Next Full meeting of TC5: Vienna September 2019

The following future events have been approved:

9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019, WG5.7, TC5, 28/08-30/08 2019, Berlin, DE, Prof. Dr. Dmitry Ivanov,

Doctoral Conference on Computing, Electrical and Industrial Systems DoCEIS`19, WG5.5, 08/05-10/05 2019 Caparica (Lisbon), PT, Pedro Miguel Ribeiro Pereira,

TRIZ Future Conference, TFC2018, WG5.4, TC5, 29/10-31/10 2018, Strasbourg, FR, Pei ZHANG, 13th OTM / IFAC / IFIP International Workshop on Enterprise Integration, Interoperability and Networking,

EI2N2018, WG5.8, TC5, 24/10-25/10 2018, Valletta, MT, Georg Weichhart,

International Conference on Application of Information and Communication Technology and Statistics in Economy and Education, ICAICTSEE 2018, TC5, 18/10-20/10 2018, Sofia, BG Dimiter G. Velev,

2018 International Conference on Cyberworlds CW 2018, WG5.10, TC5, 03/10-05/10.

14.5 TC6: Communication Systems

(Burkhard Stiller, Chair of TC6)

Working Groups

WG 6.1: Architectures and Protocols for Distributed Systems

WG 6.2: Network and Internetwork Architectures

WG 6.3: Performance of Communication Systems

WG 6.6: Management of Networks and Distributed Systems

WG 6.8: Mobile and Wireless Communications

WG 6.9: Communication Systems in Developing Countries

WG 6.10: Photonic Networking

WG 6.11: Communication Aspects of the e-World

WG 6.12: Service-Oriented Systems (joint with WG 8.10/2.14)

Principal Activities in 2017-18

The TC6 flagship conference “IFIP Networking 2018” took place in Zürich, Switzerland in May 14-16, 2018. While the General Chair and Local Host did perform in a personal union of the current TC6 chair, Burkhard Stiller from the University of Zurich UZH, Switzerland, did organize with his three TPC Co-chairs Claudio Casetti, Politecnico di Torino, Italy, Fernando Kuipers, Delft University of Technology, The Netherlands, and James P.G. Sterbenz, The University of Kansas, U.S.A.; Lancaster University, U.K. this event as a two track high profile event with single track keynotes (“Blockchain for Cyber Physical Systems”, “Flexibility Matters: On the Design and Evaluation of Softwarized Networks”, and “Artificial Intelligence in Network Operations and Management”) and a panel on “Security and Privacy in the Internet of Things”, such that out of 225 papers submitted only 55 had been accepted as full papers, resulting in a 24.4.% acceptance ratio. 8 papers had been additionally accepted as short papers, combined with 7 posters and demonstrations. At the end of the event a number of 118 different and registered attendees had been accounted for overall. Details are available at <http://networking.ifip.org/2018/>.

Prof. Dr. Dr. h.c. Otto Spaniol, RWTH Aachen was unanimously voted on to be the fourth TC6 Honorary Member. Congratulations!

The IFIP Domain Committee for IoT is supported on behalf of TC6 by Tibor Cinkler, Augusto Casaca and Neuman Souza. A position paper on IoT had been prepared and the first cross-domain IFIP Internet of Things (IoT) conference will take place during WCC2018 (IFIP’s World Computer Congress) during September 2018 in Poznan, Poland.

14.6 TC7: System Modelling and Optimization

(Fredi Tröltzsch, Chair of TC7)

Working Groups

WG 7.2: Computational Techniques in Distributed Systems

WG 7.3: Computer System Modeling

WG 7.4: Inverse Problems and Imaging

WG 7.5: Reliability and Optimization of Structural Systems

WG 7.6: Optimization - Based Computer Aided Modeling and Design

WG 7.7: Stochastic Control and Optimization

WG 7.8: Nonlinear Optimization

Changes of Officer in 2017-18

Prof. Lukasz Stettner, director of the Institute of Mathematics of the Polish Academy of Sciences in Warsaw, was elected as new chair of TC7. Prof. Dietmar Hömberg (WIAS Berlin), chair of WG 7.2, was elected as the new vice chair of TC7.

Principal Activities in 2017-18

28th TC7 Conference on System Modeling and Optimization. This bi-annual conference took place 23.–27 July 2018 at the University Duisburg-Essen (Germany), cf. the website <https://ifip2018.de/>. More than 206 participants from 26 countries attended the meeting; 8 plenary talks were held, 156 talks were presented in 22 mini-symposia. Moreover, 26 contributed talks were given.

Due to retirement of the chair of WG 7.1 and in view of the low recent activity of the members of this working group, it was decided to terminate the work of WG 7.1.

WG 7.2 organized the IFIP WG 7.2 Workshop "Optimal Control of Partial Differential Equations" in Castro Urdiales (Spain), 18–21 September 2017, cf. <http://www.casas60.unican.es/index.htm>. There were 30 invited talks were held by experts from 7 countries.

WG 7.4. The members of this working group contributed actively to the WG7.2 workshop in Castro Urdiales. Moreover, they had a major role in the organization of the 28th IFIP TC7 conference in Essen and of associated mini-symposia.

WG 7.5. The Working Group organized its 19th Working Conference on "Reliability and Optimization of Structural Systems" in Zurich (Switzerland), 26.-29. June 2018, cf. <https://ifip2018.ethz.ch/>. The workshop featured 22 invited talks by experts from 10 countries. The proceedings will be published online.

WG 7.6. The working group is seeking to recruit new members, since the core of the group recently retired.

WG 7.7. Prof. Kurt Marti, the long standing chair of WG 7.7, finished his term as chairman of WG 7.7. The new Chair is Prof. Jan Palczewski, University of Leeds, UK.

Future Activities

29th TC7 Conference on System Modeling and Optimization. The 29th TC7 Conference will be held at Escuela Politécnica Nacional (EPN) in Quito, Ecuador, in September 2020.

14.7 TC8: Information Systems

(George Kasper, Chair of TC8)

Working Groups

- WG 8.1: Design and Evaluation of Information Systems
- WG 8.2: The Interaction of Information Systems and the Organization
- WG 8.3: Decision Support
- WG 8.4: E-Business: Multi-disciplinary research and practice
- WG 8.5: Information Systems in Public Administration
- WG 8.6: Transfer and Diffusion of Information Technology
- WG 8.9: Enterprise Information Systems
- WG 8.10: Service-Oriented Systems (joint with WG 6.12/2.14)
- WG 8.11: Information Systems Security Research (joint with WG 11.13)

Principal Activities in 2017-18

The 49th meeting of Technical Committee 8 took place in Poznan, Poland, on September 17 and 18, 2018.

CONFENIS 2018. The WG8.9 International Conference on Research and Practical Issues of Enterprise Information Systems was held on September 18th–19th, 2018, at the Poznan University of Technology, Poznan, Poland. CONFENIS 2018 provides an international forum for Enterprise Information System (EIS) researchers and practitioners from all over the world to come together, present and discuss their latest research findings and ideas. The conference is specifically aiming at facilitating the exchange of ideas and advances in all aspects and developments of EIS.

Support of Attendance of Colleagues from Developing Countries. Funds were provided to allow one of the paper presenters to attend the 2017 WG 8.11 conference in South Africa.

Future Activities

At the annual meeting of TC8 the following were adopted as continuing initiatives for the upcoming year:

- Continue improvements and support of the TC 8 website.
- Support the attendance of colleagues from developing countries that get papers accepted at TC8 conferences.
- Support summer program(s) for PhD students at universities in developing countries (see below).
- Encourage WGs to try new conference formats that differ from the traditional pre-defined themes and tracks, proceedings, fixed time, fixed location format.

Summer Program for PhD Students at Universities in Developing Countries. "CIT Doctoral Student and Early-Career Professoriate Workshop". June 18-19, 2019. University of Ghana, West Africa. The workshop will offer Ph.D. students the opportunity to present, discuss, and receive feedback and exchange comments and views on their doctoral research. It will also help doctoral students and early-career faculty establish and broaden their professional network in the information systems professoriate.

14.8 TC9: ICT and Society

(David Kreps, Chair of TC9)

Working Groups

WG 9.1: Computers and Work [dormant]
WG 9.2: Social Accountability and Computing
SIG 9.2.2: Special Interest Group on Framework on Ethics of Computing
WG 9.3: Home Oriented Informatics and Telematics
WG 9.4: Social Implications of Computers in Developing Countries
WG 9.5: Virtuality and Society
WG 9.6: Information Technology: Misuse and The Law (joint with WG 11.7)
WG 9.7: History of Computing
WG 9.8: Gender Diversity and ICT
WG 9.9: ICT and Sustainable Development
WG 9.10: ICT Uses in Peace and War

Changes of Officer in 2017-18

TC9. New Chair: David KREPS (WG9.5)
SIG 9.2.2. New Chair: Don GOTTERBARN.
WG 9.4. New Chair (from January 1st 2018): Robert DAVISON
WG 9.5. New Chair: (from January 1st 2019) Petros CHAMAKIOTIS
WG 9.6. New Chair: Kai RANNENBERG
WG 9.7. New Chair: Chris LESLIE
WG 9.9. New Chair: (from January 1st 2019) Maja van der VELDEN

Principal Activities in 2017-18

Human Choice and Computers 13 (HCC13): Flagship three-day conference held in Poznan as part of WCC 19th-21st September 2018. c.40 attendees. Springer book proceedings published in parallel with the conference, using the Springer OCS platform. The flagship HCC conferences have now taken place regularly every two years (2010 (part of WCC), 2012, 2014, 2016, and 2018 (part of WCC)) since the start of the decade, all with publications.

TC9 meeting: Annual meeting and dinner held on 18th September 2018, at WCC.

A new website for TC9 has been created at www.ifiptc9.org.

WG 9.2. Meeting held in London in March 2018

SIG 9.2.2. Held a meeting in Poznan.

WG 9.3. Being relaunched with new chair David KREPS.

WG 9.4. Held a successful European Regional Conference, in Tirana, Albania, June 22nd-24th 2018. Hosted the 2018 IFIP WG 9.4 Masters and Doctoral Symposium for Sub-Saharan Africa with IDIA Conference – Tshwane, South Africa; August 22nd 2018. Website: <https://ict4d.org.uk/ifip94euro2018/>. Also hosted 2018 IFIP WG 9.4 Masters and Doctoral Symposium for Sub-Saharan Africa with IDIA Conference – Tshwane, South Africa; August 22, 2018. Website: <http://www.wg94mds.com>

WG 9.5. Ran and hosted HCC12. Main driver for HCC13 at WCC in Poznan.

WG 9.6. Held the 13th IFIP Summer School on Privacy and Identity Management in Vienna, August 20th-24th 2018.

WG 9.7. Has been closely engaged with a Track as part of HCC13 and also has its own Workshop as part of WCC in Poznan 2018.

WG 9.7 was one of the co-organisers of the 13th IFIP Summer School on Privacy and Identity Management, Vienna, Austria, 20-24 August 2018.

WG 9.8. Being relaunched.

WG 9.9. Being relaunched with new chair Maja van der VELDEN

WG 9.10. Chair Louise LEENEN Co-Chaired HCC13 along with David KREPS, and the WG has provided its own Track as part of HCC13.

Future Activities

Many working groups have planned events/activities in the agenda already for 2018-2019, including the following:

WG 9.4. 15th International IFIP WG 9.4 Conference, Dar es Salaam, Tanzania, May 1–3, 2019. Website: <https://2019ifipwg94.net>

WG 9.6. Early preparatory plans for 2019 summer school underway

WG 9.7 is planning an event in partnership with the Brazil Computer Society in 2019.

WG 9.10: Next event ICCWS end of March in South Africa, and a special event in 2019 still to be developed

The TC9 Chair will be leading a reboot initiative for WG 9.3.

14.9 TC10: Computer Systems Technology

(Ricardo Reis, Chair of TC10)

Working Groups

WG 10.2: Embedded Systems

WG 10.3: Concurrent Systems

WG 10.4: Dependable Computing and Fault Tolerance

WG 10.5: Design and Engineering of Electronic Systems

Changes of Officer in 2017-18

WG 10.4. New Chair: Mootaz Elnozahy (KAUST, SA).

Principal Activities in 2017-18

TC10. IT Research Workshop, Poznan University of Technology, Poland, September 20-21, 2018 (as part of IFIP World Computer Congress)

WG 10.2. The following co-sponsored events have been held in the past 12 months:

- SBESC 2017, Curitiba (Brazil), November 2017

<http://sbesc.lisha.ufsc.br/sbesc2017/Home>

- ESWeek, October 2017 Seoul (South Korea), <http://www.esweek.org/>

The last business meetings took place during SBESC'2017 conference in Curitiba (Brazil) in November 2017 and at UC Irvine (USA) in June 2018.

WG 10.3. The following business meetings were conducted by WG 10.3 during the last 12 months: A face to face meeting was held in IBM TJ Watson Research Center, Yorktown Heights, USA on 8th of December 2017.

The following events with main sponsorship by WG10.3 were held in the past 12 months:

○ PACT 2017 was held in Portland, Oregon, USA from 9th – 13th of September, see

<https://parasol.tamu.edu/pact17/>

○ NPC 2017 was held in Hefei, China Xi'an, China, October 20th – 21st 2017, see:

<http://npc-china2017.org/>

○ SBAC-PAD 2017 was held in Campinas, Brazil, October 17th – 20th 2017, see:

<http://www2.sbc.org.br/sbac/2017/>

○ ARCS 2018 was held in Braunschweig, Germany, April 9th - 12th 2018, see:

<http://arcs2018.itec.kit.edu/>

WG 10.4 held two meetings during the last 12 months:

○ The 73rd Meeting of the IFIP 10.4 Working Group on Dependable Computing and Fault Tolerance was held from January 11-15, 2018 in Goa, India.

○ The 74th Meeting of the IFIP 10.4 Working Group on Dependable Computing and Fault Tolerance was held in Clervaux, Luxembourg from June 28 - July 1, 2018.

○ Business meetings were held at both events.

The main conference sponsorship activity of WG 10.4 is the annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN). This year was the 48th annual meeting, held in Luxembourg, June 25-28, 2018. DSN is co-

sponsored with the IEEE Computer Society Technical Committee on Dependable Computing and Fault Tolerance (TC-DCFT).

Co-sponsored events:

- PRDC 2018, December, Taipei, Taiwan
- EDCC 2018, September Iasi, Romania
- SAFECOMP 2018, September Västerås, Sweden

WG 10.5. The following business meetings took place in the period September 2017 to September 2018:

- Abu Dhabi, United Arab Emirates, October 2017, in conjunction with VLSI-SoC 2017. 13 attendees.
- Dresden, Germany, March 2018, in conjunction with DATE 2018.
- San Francisco, CA, USA, June 2018, in conjunction with DAC 2018.

VLSI-SoC 2017

The 25th conference was co-sponsored by IEEE CEDA and CASS, ACM SIGDA. Its venue was Yas Viceroy, Yas Island, Abu Dhabi, UAE.

Events co-sponsored by WG 10.5 without financial commitment

- SBCCI2018 - 31th Symposium on Integrated Circuits and Systems Design (35 years' edition), August 27-31, 2018, Bento Gonçalves, Rio Grande do Sul, Brazil. <http://www.sbcci.org.br>. The number of participants was about 300.

Future Activities

WG 10.2. The following business meetings are planned for the coming year:

- WG meeting at SBESC 2018, Salvador (Brazil), November 2018
- WG meeting at IESS 2019, Madrid (Spain), Mai/June 2019

The following main sponsored events are already planned:

- SBESC 2018, Salvador (Brazil), November 2018
<http://sbesc.lisha.ufsc.br/sbesc2018/Home>
- DATE 2019, Florence (Italy), March 2019, www.date-conference.com
- IESS 2019, Madrid (Spain), May/June 2019 – in planning

WG 10.3. The following sponsored or co-sponsored events are already planned:

- PACT 2018 will be held in Limassol, Cyprus from 1st – 4th of November 2018, see <http://www.pactconf.org/>
- NPC 2018 will be held in Muroran, Hokkaido, Japan, November 29th – December 1st 2018, see: <http://pacman.cs.tsinghua.edu.cn/npc2018/>
- SBAC-PAD 2018 will be held in Lyon, France, September 24th -27th 2018, see: <https://graal.ens-lyon.fr/sbac-pad/>

WG 10.4. Two WG 10.4 meetings are planned over the next 12 months:

- The next meeting of the WG, winter meeting 2019, will be in Switzerland. Location: Champéry, Switzerland. Dates: 24-28 January 2019.
- The 49th DSN conference will be held from June 24-27, 2019. Location: Portland, Oregon, USA.

WG 10.5. The following business meetings are planned for the coming year:

- Verona, Italy, Oct 2018, in conjunction with VLSI-SoC 2018
- Florence, Italy, March 2019, in conjunction with DATE 2019,
- Las Vegas, NV, USA, June 2019, in conjunction with DAC 2019

The following main sponsored events are already planned:

- IFIP/IEEE VLSI-SoC 2018: Verona, Italy, October 8-10, 2018.
- IFIP/IEEE VLSI-SoC 2019: Cusco, Peru, 6-9 October 2019.
- IFIP/IEEE VLSI-SoC 2020: Salt Lake City, USA, October 5-7, 2020.

The following co-sponsored event is planned: SBCCI2019, Symposium on Integrated Circuits and Systems Design, São Paulo, August 26-30, 2019.

14.10 TC11: Security and Privacy Protection in Information Processing Systems

(Steven Furnell, Chair of TC11)

The journal *Computers & Security (COSE)*, published by Elsevier is the official journal of TC-11.

The *International Journal on Critical Infrastructure Protection (IJCIP)*, published by Elsevier is the official journal of WG11.10,

Working Groups

- WG 11.1: Information Security Management
- WG 11.2: Pervasive Systems Security
- WG 11.3: Data and Application Security and Privacy
- WG 11.4: Network & Distributed Systems Security
- WG 11.5: IT Assurance and Audit
- WG 11.6: Identity Management
- WG 11.7: Information Technology: Misuse and The Law (joint with WG 9.6)
- WG 11.8: Information Security Education
- WG 11.9: Digital Forensics
- WG 11.10: Critical Infrastructure Protection
- WG 11.11: Trust Management
- WG 11.12: Human Aspects of Information Security and Assurance
- WG 11.13: Information Systems Security Research (joint with WG 8.11)
- WG 11.14: Secure Engineering

Principal Activities in 2017-18

In 2018, the Kristian Beckman Award was awarded to Dr. Jan Camenisch, Head of Cryptography and Privacy at Dfinity, to recognise and honour his significant contributions to the field of Information security and privacy.

TC-11 held its annual 2018 meeting on Monday 17 September in Poznan, Poland, preceding the SEC 2018 conference (collocated with WCC2018).

The following events were held during the year:

3-8 September 2017, WG 9.6/11.7, 12th IFIP Summer School on Privacy and Identity Management, Ispra, Italy

28-29 September 2017, WG 11.2, The 11th WISTP International Conference on Information Security Theory and Practice (WISTP'2017), Heraklion, Greece, <http://wistp2017.wistp.org/>

6-7 October 2017, WG 8.11/11.13, The 2017 Dewald Roode Workshop on Information Systems Security Research, Tampa, Florida, US. http://lists.aisnet.org/pipermail/aisworld_lists.aisnet.org/20170208/148797.html

28-30 November 2017, WG 11.12, 11th Human Aspects of Information Security & Assurance Symposia (HAISA 2017)., Adelaide, Australia. <http://www.haisa.org/>

3-5 January 2018, WG 11.9, 14th Annual IFIP Working Group 11.9 International Conference on Digital Forensics, New Delhi, India

12-14 March 2018, WG 11.10, 12th Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection, Arlington, USA

March 2018, WG 11.5, Blockchain Under Control, Netherlands

14-15 June 2018, WG 8.11/11.13, The 2018 Dewald Roode Workshop on Information Systems Security Research, Cape Town, South Africa.

June 2018, WG 11.5, Digital Auditing: A view for financial auditors

16-18 July 2018, WG 11.3, 32nd Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 2018), Bergamo, Italy
<https://dbsec18.unibg.it>

20-24 August 2018, WG 9.6/11.7, 13th IFIP Summer School on Privacy and Identity Management., Vienna, Austria

29-31 August 2018, WG 11.12, 12th Human Aspects of Information Security & Assurance Symposia (HAISA 2018)., Dundee, UK, <http://www.haisa.org/>

Future Activities

The next annual TC meeting is scheduled for June 2019 in Lisbon, Portugal preceding the SEC 2019 conference.

The following events are planned:

17-19 September 2018, TC-11, SEC 2018:

33rd IFIP International Information Security Conference with WCC 2018, Poznan, Poland. <http://www.ifipsec.org/>

18-20 September 2018, WG 11.8, 11th World Conference on Information Security Education, in conjunction with IFIP SEC 2018, Poznan, Poland
<https://www.ifiptc11.org/wg118-events/wise11>

10-11 December 2018, WG 11.2, 12th WISTP International Conference on Information Security Theory and Practice (WISTP'2018), Brussels, Belgium
<http://www.wistp.org/>

28-30 January 2019, WG 11.9, 15th Annual IFIP Working Group 11.9 International Conference on Digital Forensics, Orlando, USA

11-13 March 2019, WG 11.10, 13th Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection, Arlington, USA

29 April – 1 May 2019, WG 11.1, 18th Working Conference on Information Security Management, Las Vegas, USA

June 2019, TC11, SEC 2019: 34th IFIP International Information Security Conference, Lisbon, Portugal. <http://www.ifipsec.org/>

June 2019, WG 11.4, iNetSec 2019, Co-hosted with SEC 2019, Lisbon, Portugal

July 2019, WG 11.3, 33rd Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 2019), South Carolina, USA

14.11 TC12: Artificial Intelligence

(Ulrich Furbach, Chair of TC12)

Working Groups

WG 12.1: Knowledge Representation and Reasoning

WG 12.2: Machine Learning and Data Mining

WG 12.3: Intelligent Agents

WG 12.5: Artificial Intelligence Applications

WG 12.6: Knowledge Management

WG 12.7: Social Networking Semantics and Collective Intelligence

WG 12.9: Computational Intelligence

WG12.4 and 12.8 became dormant and have been closed.

Principal Activities in 2017-18

The following events were supported by TC12 in 2017-18.

SmartER Europe – Smart Energy Research at the crossroads of Engineering, Economics and Computer Science, February 2018, Essen, Germany.

The second International Workshop on Systems and Algorithms for Formal Argumentation, September 2018, Warsaw, Poland

WG 12.5. 14th IFIP Artificial Intelligence Applications and Innovations, 25–27 May, 2018, Rhodes, Greece <http://easyconferences.eu/ai2018/>

WG 12.6. 6th AI4KM@ IJCAI, July 15th 2018, Stockholm
<http://ifipgroup.com/wp-content/uploads/2018/06/6AI4KM-program.pdf>

WG 12.7. IFIP WG 12.7 was a technical co-sponsor for the 2017 Workshop on Hybrid Human-Machine Computing (HHMC 2017), held in the University of Surrey, September 20-21, 2017.

Future Activities

The following future events are formally supported by IFIP:

15th Artificial Intelligence Applications and Innovations 2019, May 2019, Koos, Greece

10th International Conference on Intelligent Information, October 2018, Nanning, China

The Third International Conference on Intelligence, November 2018, Beijing, China

WG 12.1 is organizing the Second International Workshop on Systems and Algorithms for Formal Argumentation (SAFA'18), co-located with the 7th International Conference on Computational Models of Argument (COMMA'18), Warsaw, Sep 11 2018.

WG12.1 will hold its bi-annual working group meeting at KR'18 in Tempe, USA (Oct 30th– Nov 2nd) 2018.

WG12.1 is planning the third International Competition on Computational Models of Argumentation (ICCMA'19 <http://argumentationcompetition.org>). The results of the competition will be presented during the TAFE workshop at IJCAI'19.

WG 12.2. 10th International Conference on Intelligent Information, October 2018, Nanning, China

The Third International Conference on Intelligence, November 2018, Beijing, China

WG12.3 supported the organization of ISAmI 2018- International symposium on Ambient Intelligence, Toledo, Spain, 2018

WG12.3 supported the organization of EPIA 2017 – 18th EPIA Conference on Artificial Intelligence, Porto, Portugal.

WG12.3 supported the organization of the Workshop on Decision Making in Dynamic Information Environments (DeMaDIE), co-located with PAAMS 2017 – 15th International Conference on Practical Applications of Agents and Multi-Agent Systems, Porto, Portugal.

14.12 TC13: Human-Computer Interaction

(Philippe Palanque, Chair of TC13)

Working Groups

WG 13.1: Education in HCI and HCI Curriculum
WG 13.2: Methodologies for User-Centered Systems Design
WG 13.3: Human-Computer Interaction and Disability
WG 13.4: User Interface Engineering (joint with WG 2.7)
WG 13.5: Human Error in Resilience, Reliability, Safety
WG 13.6: Human-Work Interaction Design
WG 13.7: Human-Computer Interaction & Visualization (HCIV)
WG 13.8: Interaction Design and International Development
WG 13.9: Interaction Design and Children
WG 13.10: Human-Centered Technology for Sustainability

Changes of Officer in 2017-18

WG 13.6. New chair from December 2017: Barbara Rita Barricelli

Principal Activities in 2017-18

The IFIP TC13 flagship conference INTERACT 2017 which took place from September 25-29 in Mumbai, India. It received a total of 571 submissions distributed in 2 peer reviewed tracks, 5 curated tracks, and 7 juried tracks.

INTERACT 2017 incorporated a number of workshops:

- Workshop on Cross Cultural Differences in Designing for Accessibility and Universal Design (WG13.3)
<https://ifipwg133.wordpress.com/interact-2017-workshop-cross-cultural-differences-in-designing-for-accessibility-and-universal-design/>
- Workshop on Dealing with Conflicting User Interface Properties in User-Centered Development Processes (WG13.2 and WG13.5)
<http://ifip-tc13.org/wg-13-213-5-workshop-interact17-mumbai/>
- Beyond Computers: Wearables, Humans, And Things – WHAT! (WG13.7)
<http://www.hciv.de/what17>
- Human Work Interaction Design meets International Development (WG13.6 and WG13.8)
<http://hwid.m-iti.org/?p=155>

Co-organised events:

- Workshop on Hybrid Human-Machine Computing (HHMC 2017): From Human Computation to Social Computing and Beyond, Surrey, UK, September 20-21 2017 (WG 13.2). <http://hhmc2017.commando-humans.net/>
- EICS 2018. The ACM SIGCHI EICS conference (co-organized by WG 2.7/13.4). Paris, France, June 19–22 June, 2018. <http://eics.acm.org/2018/>
- FMIS 2018. The 7th International Workshop on Formal Methods for Interactive Systems, Toulouse, France, June 25-26, 2018. (WG 2.7/13.4 and WG 13.5.) <https://fmis2018.sciencesconf.org/>
- Course “Automation: Danger or Opportunity? Designing and Assessing Automation for Interactive Systems” at CHI 2018, Montreal, Canada, April 21-26, 2018. (WG 2.7/13.4 and WG 13.5).
<https://dl.acm.org/citation.cfm?id=3170427.3170652>

WG13.7. UsARE'2017, the 3rd International Workshop on Usability and Accessibility focused Requirements Engineering, September 04, 2017, Lisbon, Portugal, in conjunction with the 25th IEEE International Requirements Engineering Conference. <http://hciv.de/usare17/>

WG 13.6. Working conference Human-Work Interaction Design (HWID'18), University, Espoo, Finland, August 20-21, 2018. <https://blogs.aalto.fi/hwid2018/>

WG 13.2 HCSE 2018, Sophia Antipolis, France. 7th International Working Conference on Human-Centered Software Engineering, Sophia Antipolis, France, September 3-5, 2018. <http://hcse-conference.org/>

Business meeting N. 44 was held in Mumbai, India on September 30th 2017 immediately after INTERACT 2017.

Business meeting N. 45 was held from March 16-17th 2018, Tallinn, Estonia, preceded by the TC13 Open Symposium (see <http://ifip-tc13.org/tc13-open-symposium-2018-tallinn-estonia/>) which was open to the community.

Future Activities

Business meeting N. 46, London, March 2019.

INTERACT 2019, 2–6 September, 2019, Paphos, Cyprus <https://interact2019.org/>

INTERACT 2021, Bari, Italy.

14.13 TC14: Entertainment Computing

Working Groups

WG 14.1: Digital Storytelling
WG 14.2: Entertainment Robot
WG 14.3: Theoretical Basis of Entertainment
WG 14.4: Entertainment Games
WG 14.5: Social and Ethical Issues in Entertainment Computing
WG 14.6: Interactive TeleVision
WG 14.7: Art and Entertainment
WG 14.8: Serious Games
WG 14.9: Game Accessibility

Changes of Officer in 2017-18

New TC9 Chair: Rainer MALAKA (Germany)

The Vice-chairs of TC9 are now Letizia JACCHERI (Norway), Esteban CLUA (Brazil) and Junichi HOSHINO (Japan).

WG 14.1 new chair: Mads HAAHR (Ireland)
WG 14.4 new chair: Junichi HOSHINO (Japan)
WG 14.6 new chair: David GEERTS (Belgium)
WG 14.7 new chair: Jun HU (The Netherlands)
WG 14.8 new chair: Jannicke BAALSRUD HAUGE (Sweden)
WG 14.9 new chair: Jerome DUPIRE (France)

Principal Activities in 2017-18

The 16th International Conference on Entertainment Computing (ICEC2017).
September 18-21, 2017, Tsukuba, Japan <http://icec2017.net>

ICEC 2018, Poznan, Poland, September 17-20 2018 <http://www.ifip-icec.org>

The twenty-fifth TC14 business meeting took place on May 3, 2018 via teleconference.

Future Activities

The next TC14 meeting will be held via videoconference in April/March 2019.

ICEC2019 will be held at the Universidad Católica de San Pablo, Arequipa, Peru