



International
Professional
Practice
Partnership



ifip

Partnering for Trust in Digital

IFIP IP3 Annual Report

2020 - 2021

PARTNERSHIP

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Acknowledgements











The IFIP IP3 Board acknowledges the vital support of its members, its committees and industry practitioners for the contributions they make in advancing the mission to develop the global standard in ICT professionalism.

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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 with 38 country member bodies and affiliates representing all five continents. 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).

IP3 Board 2019-2020

 <p>Moira de Roche Chair <i>Representative: IITPSA</i></p>	 <p>Tetsuro Kakeshita <i>Representative:</i> Information Processing Society Japan</p>
 <p>Brenda Aynsley Immediate Past Chair <i>(Deceased August 2018)</i></p>	 <p>Margaret Havey <i>Representative:</i> CIPS</p>
 <p>Adrian Schofield Vice-Chairman Standards and Accreditation and Chief Assessor</p>	 <p>Anthony Wong <i>Representative: IFIP &</i> ACS</p>
 <p>Stephen Ibaraki Vice-Chairman: Strategic Relations</p>	 <p>Liesbeth Ruoff KNVI representative</p>
 <p>Don Gotterbarn Ethics expert <i>(Co-opted)</i></p>	 <p>Jee-In Kim KIISE representative</p>

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 Action Lines 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".

IFIP IP3 Councils

Standards and Accreditation Council

The Standards and Accreditation Council provides independent advice to the IFIP IP3 Board on standards and management of the accreditation functions of IFIP IP3.

The membership of the Standards and Accreditation Council is based on expertise and/or interest in standards and accreditation and not as representative of any group or association. IFIP IP3 would expect that all those engaged in the profession are members of a professional association; however, it should be made clear that such members do not necessarily represent the views of those organisations while engaged in Standards and Accreditation Council activities. The Standards and Accreditation Council will generally seek persons from associations with a strong and robust certification program in place.

Members of Council

Adrian Schofield, Chair (IITPSA)

Peter Cole (ACS)

Penny Duquenoy (IFIP representative)

Tan Moorthy (GIC representative)

Brian Cameron (GIC representative)

Assessment Panel

These volunteers are trained assessors of professionalism schemes for IFIP IP3 members who seek accreditation of their certification/professional credentialing programs. The Panel currently is comprised of:

- Adrian Schofield, Chief Assessor (South Africa)
- Colin Thompson (United Kingdom)
- Peter Cole, Senior Assessor (Australia)
- Bob Hart, Senior Assessor (Australia)
- Dr. Stephen Seidman, Senior Assessor (United States)
- Gina van Dalen, Senior Assessor (Canada)

Global Industry Council

The support of the international employer community is critical to IP3's goal of building ICT professionalism globally. Recognizing this criticality, IP3 established its Global Industry Council (IFIP IP3-GIC) as the principal forum within which ICT employers can engage with IP3 and influence the development of the global profession.

It is the intention that IP3-GIC is a prestigious organization comprised of recognized thought leaders from major organizations (both private and public sector) with acknowledged experience and expertise in information and communication technologies and that a seat at the Council reflects the global third-party validation that is only possible through a 50+ year old body with UN roots.

Global Industry Council Directors are specially nominated and invited to serve within the UN-rooted body as internationally recognized luminary executives, thought leaders, and visionaries and for their strong history of providing substantive contributions to global business, industry, society, education, and governments. The IP3-GIC is a first of its kind focusing on computing as a profession, which will further align computing with organizational strategy and business agility driving sustainability, education, risk management and security, skills development, professional standards, innovation, entrepreneurship, business growth, regional GDP growth, high yield investment opportunities, and regional economic development. Global GDP is over 60 Trillion USD and the global program for computing as spearheaded by IFIP IP3 and IP3-GIC will be a catalyst for a more than a 20% increase in global GDP in the next 10 years to over 80 Trillion USD.

The IP3-GIC purpose and mandate are set out in Appendix 2.

Find a list of GIC Directors here: [GIC Director List](#)

Reports

Chairman's Report

The past year....

The first half of 2021 continued much as 2020 had, with no travel and virtual events. Although I have always been a fan of “virtual” and prefer online learning, I can’t wait for the time when once again we can meet and share in person.

My own Society, IITPSA has held two very successful AGMs virtually, as well as an awards event which impressed everyone. VIP guests even received their own box of treats so that they could nibble as they watched the proceedings. These events were hosted professionally and were excellent examples of what can be done.

Some highlights of my year follow.

IFIP & IP3 at WSIS2021 (Virtual Event)

IFIP was once again a Supporting partner, and put up a Virtual Exhibition

High-Level Policy Session

Moira de Roche represented IFIP at Session 10, Ethical Dimensions of Information and Knowledge Societies, on Friday, 26 March 2021. The questions we submitted, and answers provided:

What is IFIPs view on Ethics as a governance issue – corporate and governmental?

Ethics is a governance issue in any organization. We talk about the “tone from the top” – Leadership must set the ethical standards. In South African Company law, based on KING IV, organizations are mandated to have a board Social & Ethics Committee for oversight of Ethical Issues. Decision-making is included in leadership training; this must be expanded to include ethical decision-making. Leadership is part of both the ethics problem and the solution, because of their influence and power over people and processes.

It’s worth remembering that business is built on Trust, which goes hand in hand with ethics. “Good governance never depends upon laws, but upon the personal qualities of those who govern.”- Frank Herbert (Science Fiction author).

The Information Society, and particularly IT Professionals and vendor organisations have been talking about Ethics for some time. What actions can be taken to ensure that Ethical decision-making is embedded in the organisation’s culture, whether it is a public, private, or government organisation?

IT Organizations – whether a vendor or IT department in business or government – need a Code of Ethics that everyone understands. This will guide leadership and employees when there is a dilemma between company and individual interests. Everyone must learn about the Code, and how it is used for ethical decision-making. To properly embed ethics into an organization’s culture, or I like to call it their DNA, ongoing refresher and remedial training to remind employees of the principles and the process for ethical decision-making is essential. Remember the goal is to change habits, and this cannot be done if an individual attends a course once. Everyone in the organization must be taught how to recognise when they have an ethical quandary.

Discussions amongst employees about whether a decision is ethical or not should be encouraged. Some member societies have an Ethics exam which professional grade members must pass. It does not guarantee ethical decision making, but at least gets the individual thinking about it.

Ethics must not be a “read and sign” activity as it is in many organizations. Often it is aligned to disciplinary processes, but when it gets this far, the Ethics failure is already history – reactive, not proactive.

Together with the recently launched IFIP Code of Ethics, which we believe should be a benchmark or exemplar for all Codes of Ethics, we have a CARE process, which is a step process for deciding whether something is

ethical. Clearly, one cannot always consult the Code, and then the process, every time a decision is made. Therefore, it must become second nature, especially when developing IT products. As with other Professions, we must consider “Who could be harmed” by this technology or digital product. There is a need for a conscience in the ICT profession. This is already intuitively understood by practitioners and the “man on the street,” but it needs to be acknowledged and voiced at every opportunity. Conscience speaks to everyone’s unspoken uneasiness.

(In the) COMEST report to UNESCO, “Finally, engineers and software developers should be appropriately trained to ensure responsible design and implementation of AI.”. IFIP could not agree more, although we believe that the same issues face those who produce systems and digital products, irrespective of the technology used.

How can IFIP help? IFIP IP3 are ready to assist UNESCO and all the UN bodies to ensure ethical training. We have published the IFIP Code of Ethics, which we believe should be the standard and starting point for all ICT Codes. We can help any organization with the change process required to embed Ethics into the culture and to make sure that all ethics knowledge can be applied on the job and “on the fly”, because we can’t stop everything and say, “Wait, is this ethical?”. We can’t just hope for the best. Recent examples of major ethics failures such as Boeing Max and Volkswagen Dieselgate come to mind, but there are many more. Call IFIP IP3 – we’d be pleased to go on the Ethical journey with you.

Thanks go to Leon Strous & IP3 board members for contributing to the answers.

IP3 Thematic Workshop - Building Cyber Resilience with a Professional workforce

Held on Tuesday, 13 April 2021 at 13:00-14:00 CEST, the workshop explored:

How to Protect infrastructure, privacy, consumers and facilitate global skills transfer. It formed part of the Cyber-Security track.

The UN Secretary-General in his Jun 2020 Digital Cooperation Roadmap: Secretary-General’s Roadmap for Digital Cooperation (un.org) articulates the importance of many facets on digital cooperation including on:

- Digital Capacity-Building
- Digital Trust and Security
- Artificial Intelligence

This workshop showcased activities in different regions to build capacity in Digital Trust & Security for cyber-resilience in a world that went digital almost overnight. We explored how Skills Frameworks, Bodies of Knowledge, and Quality Assurance are developing to build capacity in Cyber-Security, creating a resilient professional workforce.

The session was moderated by Moira de Roche, Chair IFIP IP3. Speakers included: Steve Furnell, Chair IFIP TC11; Fred Van Noord, ENISA; Anthony Wong, IFIP V-P; Robert Weisman, University of Ottawa.

David O’Leary Award

Deputy CEO of the Irish Computer Society (ICS), Mary Cleary won the inaugural David O’Leary Award in 2019. This recognised her ethical and professional leadership over many years. The award was not bestowed in 2020, because the COVID-19 Pandemic meant that GA would be held virtually. Given that the situation has not really changed in 2021, we decided to present the award at GA this year, and the winner will be invited to attend GA in 2022.

Four nominations were received for the 2021 award. A judging pane comprising three GIC directors was convened. Judging is currently underway.

IITPSA Achieves IP3 Accreditation for a Second Term

IP3 is pleased that IITPSA (Institute of information Technology Professionals South Africa) completed the process of renewing the accreditation of its professional recognition scheme (PMIITPSA) with flying colours. The IP3 Board approved the recommendation of the Standards and Accreditation Council in December 2020 to extend the accreditation for a further five years unconditionally. The evaluation process was notable for several reasons. It was the first to be completed remotely, with the assessors remaining at their home bases in different continents. It was the first to be completed without the need for interviews, thanks to the high quality of the comprehensive documentation submitted by IITPSA in support of their application. It was the first to accredit a SFIA Level 7 designation, recognising the role of Professional CIO (Pr.CIO).

Engagements

I was invited to speak at the IT Professionals Europe (ITPE) Professional Ethics Expert Group meeting on 9 December 2020, about the IFIP Code of Ethics. The title of the presentation was “Ethics, ethics everywhere, but which code should we use?”. Moira took the opportunity to explain to participants that the over-abundance of Codes of Ethics does nobody any good and went on to explain the process used by the IFIP Task & Finish Group to compile the IFIP Code of Ethics. Moira stressed that any organisation should use this code as the starting point for their own Codes, adding to it as required to suit local conditions. Click [here](#) for the IFIP presentation.

I was also invited to participate in a working group discussion in the World of Work Dialogue, convened by WHO. Across the four themes there were over 40 participants representing SMEs, large multinationals, labour unions, MOH, ILO, WHO, etc.). The themes for discussion were:

- Collaborating for results: Public-private collaboration in health emergencies
- Communicating in crisis: Information sharing and leadership during health emergencies
- **Changing the future today: Sustainability at the core of business, contributing to a healthy society, economy, and world**
- Custodians of health: Employers as health protectors/providers/enablers

I participated in the topic shown in bold. I emphasised the importance of Trust and Ethics in a world that had gone online virtually overnight. For more information visit the [Events](#) page at the World Health Organisation’s website.

IFIP Code of Ethics

Moira was part of the Task & Finish Group for the Code of Ethics. As it is the work of IP3 to promote and market the code, there will be a section of the IP3 website which will include a page for a downloadable PDF of the code. IP3 will also evangelise the code at every opportunity. A limited number of printed copies of the IFIP Code of Ethics booklets are available.

Liesbeth Ruoff, who represents KNVI on the IP3 board, shared this good news “After the Code of Ethics was accepted at IFIP GA, KNVI immediately took the opportunity to present the Code and it was accepted at their AGM in November. KNVI has not changed anything in the code and will use 2021 will be used to get the Code introduced to their members”.

IITPSA has rebranded the Code as the IITPSA Code of Ethics – other than including and introduction and addendum with member-specific information, the code is in its original form. It is now a prescriptive code for all IITPSA members.

Digital Skills for Everyone, everywhere (project led by Liesbeth Ruoff)

IP3 remain committed to this project. Under the leadership of Computer Society Botswana, and in collaboration with Rotary, a pilot is underway in Botswana. Plans were affected by the COVID-19 Pandemic, but the project is making some progress.

We have not yet achieved the goal of getting more partners on board but will continue to strive to do so.

IP3 and Member Society discussion at SEC2021

IP3 Chair Moira de Roche moderated a session “IFIP and Member Societies”. Panellists included:

- David Cook, Vice President: Academic Boards, ACS (Australia)
- Jee-In Kim, IFIP Councillor, KIISE (South Korea) (IP3 Director)
- John Higgins, President, BCS (UK)
- Liesbeth Ruoff, KNVI, Netherlands (IP3 Director)
- Terje Wold, Chair, Norwegian Computer Society (NCS)
- Tony Parry, CEO, IITPSA (South Africa)

Each panellist was asked to talk about their Society, and its relationship with IFIP and by extension IP3. This was followed by a robust discussion on what IFIP does well and on the contrary could do better. We also examined how Societies could get more benefit from the activities of their TC and WG reps. One of the suggestions was that the deep knowledge gained from academic research could be converted into “bite-sized” information to make it more palatable to members from a non-academic background.

TC11/IP3 collaboration

Representatives from the T11 – Information Security, and IP3 are in discussions about what we can do to provide clarity for those navigating the many skills and competency frameworks on Cyber-security. We are not planning on duplicating any work, but rather scanning the landscape of what is available. We will be investigating potential partners for this.

I wish to thank the IP3 board, and those who participated in our workshops for their time and commitment during the past year.



Moira de Roche FIITPSA PMIITPSA IP3P
September 2021

IP3 Deputy Chair Report 2020

ICT professionals and academics understand better than most in relation to the trends and trajectories of emerging technologies and their potential impacts on the economic, safety and social constructs of the workplace and society. It would be beneficial to society for ICT professionals, academics, and professional societies to assist government, legislators, regulators, and policy formulators with their unique understanding of the strengths and limitations of the technology and its effects, in this important milestone in human history. It would also be beneficial to ensure that the issues are widely debated, so that appropriate and intelligent decisions can be made to mitigate the risks and challenges ahead, including during the design and lifecycle of systems.

The need to address the negative downsides of emerging technologies have increased in urgency as the adverse potential impact could be significant in specific critical domains. If not appropriately addressed, human trust will suffer, impacting on adoption and oversight and in some cases posing significant risks to humanity and societal values.

Congratulations to IP3 and TC9 on the adoption of the IFIP Code of Ethics and Professional Conduct at the virtual IFIP General Assembly (GA) held on 24th September 2020. The joint Task and Finish Group was convened at GA 2019 in Kiev. The project was an element on the IP3 2019 Action Plan – Ethics in Professional Practice – “Giving voice to values”.

There is a growing awareness and consensus that ethical principles and frameworks including professional code of ethics and conduct, play important roles in the wider technology governance ecosystem. The other facets of the governance ecosystem include relevant policies, laws and regulations, standards, technology by design and impact assessment frameworks and, audits and certification.

This report outlines some of the Deputy Chair’s activities in furtherance of the current **IFIP IP3 Action Plan 2021** which includes:

- Member Society Accreditation
- Creation of Ethical Case studies
- Opportunities to help business & government successfully operationalise Ethics
- Social media posts about the code
- Share articles etc. that support the need for the code
- Contact GIC directors and ask for their assistance
- Collaboration between TCs and the work of IP3

IP3 contributed a chapter on **“Professionalism in IT”** for the 60th Anniversary Celebration Book - Unimagined Futures – ICT Opportunities and Challenges. The chapter also featured ethical case studies on Volkswagen (‘Dieselgate’), Boeing 737 Max and Equifax. The Springer Nature publication, L. Strous et al. (Eds.) looks at the societal oriented effects of ICT developments on society.

In addition, Anthony contributed a chapter on “The Laws and Regulation of AI and autonomous systems” for the IFIP 60th Anniversary Celebration Book. The chapter provides brief insights on some of the current debates and topical developments in our regulatory systems on the ethical use of AI, autonomous and intelligent systems.

In the COVID period, Anthony also contributed a chapter on **“The Australian COVID Tracing App Experience”** for the KNVI book 'Multidisciplinary aspects of COVID-19 apps'. This book is an initiative of IFIP member, the KNVI, the Royal Dutch Association of Information Professionals: <https://www.knvi.nl/nieuws/326554/Boek-%E2%80%98Multidisciplinaire-aspecten-van-COVID-19-apps%E2%80%99-nu-verkrijgbaar->.

IP3 welcomes the newly elected CSSL President, Damith Hettihewa. Damith in his Presidential message advocated for professional recognition for the Sri Lankan ICT workforce: <https://www.ft.lk/it-telecom-tech/CSSL-President-calls-for-professional-recognition-for-ICT-workforce/50-712974>. IP3 has commenced dialogue with the CSSL President to assist CSSL in their Professionalism Agenda.

Over the COVID year, Anthony participated in various virtual events and activities related to ICT Professionalism, including:

- Presentation to **Brazilian Computer Society Conference, SECOMU 2020** - “Artificially Human or Humanly Artificial? Challenges for Society 5.0” on “**Ethics & Regulation of Artificial Intelligence**”, Brazil 18th November 2020.
- Presentation on “**Ethics & Regulation of Artificial Intelligence**” hosted by **TC 12 at the 8th International Workshop on Artificial Intelligence for Knowledge Management (AI4KM 2020)** 29th International Joint Conference on Artificial Intelligence & the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020), Yokohama, Japan 7th January 2021. The paper is published with Springer: <https://lnkd.in/g4-Djuv>.
- In April 2021, IP3 hosted a panel discussion on “**Building Cyber Resilience with a Professional Workforce**” as part of the **World Summit on the Information Society (WSIS) Forum**, badged as an #ifip60 event with **TC 11**.



Cybersecurity is vital for all organisations, with recent statistics suggesting a global cybersecurity workforce shortage of 3.1 million. The session highlights the importance of initiatives to grow skilled cybersecurity workforce and on the sharing of best practices. The desire of various organisations and governments to create their own cybersecurity skills frameworks could reduce the mobility of cybersecurity workforce and global skills transfer. A recording of the session is available [here](#). WSIS 2021 was organised by UN agencies including ITU and UNESCO.

Anthony Wong

September 2021

VC Standards and Accreditation

Adrian Schofield from the Institute of Information Technology Professionals South Africa (IITPSA) has completed his seventh 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 reviewed the need to include Cybersecurity specialism into accredited schemes, as has been done by the Australian Computer Society and is being planned by IITPSA in South Africa. Documentation for this will be issued for comment in line with the ACS re-accreditation (see below).

We have not needed to recruit any additional assessors, nor have there been any assessment activities requiring audit.

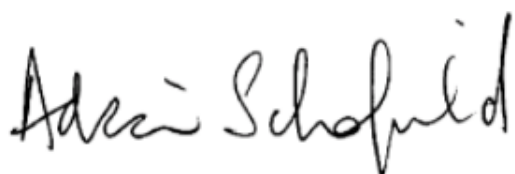
We are pleased to report that CIPS' application for re-accreditation was approved for 5 years from 1 May 2021. We are also pleased to report that IITPSA's application for re-accreditation of their PMIITPSA scheme and accreditation of their new Pr.CIO (Professional CIO) scheme was approved for 5 years from January 2021.

We note that the ACS accreditation was due for renewal at the end of 2019 but the submission of the application has been postponed, pending the finalisation of the restructuring processes at ACS. A year later, this has not been resolved but we expect progress by end September 2021.

There is no other progress to report from other societies, although interest has been expressed by CSSL and KIISA. 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 2020 edition of the full IP3 accreditation guidelines (Version 8) provides the detailed template for all societies interested in being accredited and is available on request. 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.

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



Adrian Schofield, FIITPSA PMIITPSA IP3P
August 2021

VC Strategic Relations & Global Industry Council

The work by Vice-Chair Stephen Ibaraki provides unique and broad opportunities to position IFIP and IP3 with many diverse audiences to grow recognition, brand, and membership. Stephen contributes globally “daily” as Chairman, Founder, Board member, Speaker across: Business, investments, venture capital; serial Entrepreneurship/startups; no.1 global computing Science organizations; UN innovation programs; top CEO/Industry-organizations/think tanks, no.1 Summits (acronym BE-SUN-CIS). 300+ global engagements annually impacting \$100+ Trillion in sustainable investments.

Due to the extent of these activities only a small sampling is listed in summary and point form:

In April 2021, Stephen renewed the IFIP Global Industry Council (GIC) who have undertaken more than 10 projects for 2021/2022. Judging the David O’Leary Award is one and another is a session for the IFIP 60th anniversary. Themes for 2021-2022: Focus on future of works/skills and education which includes entrepreneurship, SDGs, digital skills/reshaping due to pandemic, diversity, inclusion, youth - leveraging our uniqueness as the largest federation of computing organizations founded by the UN in 1960.

Partial listing of planned projects include:

- ITPE IFIP 60th events Nov 9th 10am - 3pm EU time - speaker two slots morning and afternoon "Never to waste a crisis"
- Moira IFIP newsletter piece with article from GIC. Can place into media channels like Forbes / IT World however can't be a copy of newsletter article.
- IFIP 60th session December - tie into article
- Proposal for UN ITU AI for Good session
- Proposal for CES or others Panel Jan 2023
- Infographic on Major Themes
- Proposal for Young Innovators --- youth moving towards our themes - execution Q2 2022

Notable for 2021--Stephen interviewed IFIP IP3 Chair Moira de Roche and IFIP IP3 Deputy-Chair Anthony Wong which appeared in several non-profit channels such as in CIPS, NPA, IEEE TEMS, IFIP, ACM (interviews appear with the widely read ACM Education Centre Bulletins). The more than 100 interviews conducted for 2020/2021 can be viewed with IFIP IP3 member CIPS <https://cips.ca/community/>. Other examples of notable interviews include two with John Hennessy, president emeritus Stanford University, ACM Turing Awardee, chairman of Alphabet; David Beasley, executive director, World Food Programme which received the Nobel Peace Prize in Dec 2020; IFIP member, KNVI chair Wouter Bronsgeest; Keith Strier, VP Worldwide AI NVIDIA, chairman of OECD’s AI Compute Taskforce. All interviews are available to appear with IFIP news. IFIP member leaders interested in being interviewed can contact Stephen directly.

Stephen works with major UN agencies such as ITU, World Food Programme, World Health Organization, and UN HQ NYC and can leverage these strategic relationships to provide introductions to IFIP members or provide requests to UN agencies from IFIP members.

In 2021, The IFIP IP3 David O’Leary award continues for outstanding ICT professionalism (cash prize and travel to IFIP General Assembly from REDDS Capital (Stephen is Chairman) with funding from the Kay Family Foundation. The first recipient of the award was given out at the 2019 IFIP General Assembly to ICS Deputy CEO Mary Cleary and the second for 2021 will be announced at GA in September.

For 2021, Stephen continues his global contributions captured by Microsoft from receiving his 16th Microsoft global MVP award. Stephen can leverage this strategic relationship to provide requests to Microsoft and introductions to IFIP members.

Stephen contributed many articles for Forbes, IT World (Canada). A recent example spotlights IFIP's international member ACM and the Turing Awardees in 2021

<https://www.forbes.com/sites/stephenibaraki/2021/03/31/jeffrey-ullman-and-alfred-aho-2020-acm-amturing-award-recipients/?sh=2be2ba9973e2>

Stephen contributes daily to posts within LinkedIn where he has been at the maximum allowed contacts of 30K for many years. Stephen can leverage these first level contacts to provide requests to 30K leaders and introductions to IFIP members.

The ACM is the No.1 computer science research, innovation, educational organization in the world and an international member of IFIP. Stephen is ACM Practitioner Board member and past chair; Stephen is chair of the board professional development committee responsible for ACM education programs through the ACM Learning Center. Stephen also heads the task force overseeing the Future of Computing Academy (FCA) Career Paths project which completes September 2021. The final report would be useful for IFIP IP3, GIC, and IFIP members.

Stephen is supporting CEO clusters globally including the YPO European Impact Summit Oct 19-21 2020 where Stephen is the founding chair of the advisory board. YPO is the largest non-profit notable CEO organization: 30K CEOs, \$ 9 Trillion annual revenue, across 142 countries. This provides opportunities for IFIP member partnerships.

Stephen as founder, UN ITU AI for good, <https://aiforgood.itu.int/>, is continuing to provide active support and can provide requests to the UN ITU and introductions to IFIP members.

Stephen contributed the forward to the Smart Humanity book from IFIP member KNVI where Wouter Bronsgeest, Sandra de Waart are co-authors with contributions from more than 35 leaders. This book is an initiative of IFIP member, the KNVI, the Royal Dutch Association of Information Professionals. The book is featured and recommended in all of Stephen's keynotes for 2021.

Stephen works daily with CEOs and two keynotes examples are: VL annual summit to 4000 CEOs, captured in this VL article <https://vl.dk/en/2021/03/he-teaches-governments-and-leaders-to-use-ai-to-create-a-better-world-and-business/> and the AI Expo Africa conference (the largest B-B, B-G conference) <https://aiexpoafrika.com/2021/06/09/stephen-ibaraki-ai-expo-africa-keynote/>. These provide opportunities for IFIP member partnerships, make requests from IFIP members and provide introductions to IFIP members.



**Stephen Ibaraki - GIC Founding Chair; Vice Chairman IP3 Board (representing GIC and Strategic Relations)
August 2021**

Member Association Reports

Australian Computer Society (ACS)

Overview of Society

The Australian Computer Society (ACS) is the largest 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.

Membership and profile

The Australian Computer Society (ACS) has the following membership grades:

- Associate – AACs
- Member – MACs
- Senior Member – MACs (Snr)
- Fellow – FACS

Areas of operations

ACS has branches in each state and territory, as well as overseas members.

Region

Australia Asia Pacific/ Oceania

Key activities related to ICT Professionalism

Despite the various COVID lockdowns and limitations in Australia over the year, the ACS hosted various physical and virtual events and activities around the country during 2020-2021, including the following related to ICT Professionalism:

- **The ACS mySFIA Session with University of Melbourne**, on the mySFIA tool, its categories and how students may undertake a self-assessment by using this tool.
- **ACS surveyed Australian schools** to gather data and form a benchmark for the state of Digital Technologies and IT education and teaching in the school sector. The year has been challenging for Australian schools, and ACS used the feedback collected through the survey for a submission to the Australian Curriculum, Assessment and Reporting Authority (ACARA), contributing to the review of the 2021 National Digital Technologies Curriculum. ACS is committed to supporting all teachers to drive high quality computing education across teaching practices. A copy of the submission is available here: https://www.acs.org.au/ict-educators.html?utm_campaign=msm-ict-educators-school-survey&utm_medium=social&utm_source=linkedin&utm_content=20201021.
- ACS has also established a forum for **ICT Educators – A Community of Practice for Teachers** to discuss creative ways to implement the Australian Digital Technologies Curriculum, for sharing of ideas and teaching practices, and to provide tips and guidance to the community of educators.
- ACS participated in the **Australian Defence Force's Cyber Gap Program** by providing complimentary professional membership in the Society. The program provides financial support, mentoring and Defence work experience opportunities for cyber students across Australia. 48 students enrolled in this year's pilot program with 250 students expected to take part in 2021. The Program is open to Australian citizens who are already enrolled in or about to commence cyber-related studies that run for a minimum of 12 months.
- **ACS Professional: Journey of an ICT Professional, From Migrating to Australia to Becoming Head of Data Science**: Steve Nouri shared his own journey from his life and career in Iran to being one of the leading advocates of Data in Australia.
- **ACS Virtual Tech and Employability Skills Half-Day Conference: Thriving as a Remote Tech Professional**.

- **ACS AI Decision Making Primer:** ACS's new primer on 'The Ethics and Risks of AI Decision-Making' looks at the ways that organisations can integrate AI into their decision processes without risking harm to themselves or the public.
- **ACS Industry Insights Leaders Series: Ethics in AI and What This Means for the Future of Innovation.**
- **ACS Canberra Emerging Talent Program:** Over 200 ACS members took part in the Digital Transformation Agency's Digital Emerging Talent Program (Apprentices, Cadets and Graduates).
- **ACS Tech: A Guide to Developing Required, Desired and Transferable Skills as a Tech Professional.**
- **ACS Tech and Employability Skills Half-Day Conference: Finding Jobs In The Cities of the Future.**
- **ACS Emerging and Deep Tech Webinar Series: The Future of Data And Blockchain:** 90% of the world's data was created in just the last three years. Imagine how much data would be created in the next five years, 10 years or more. Data is the new gold and whoever controls data would be the new leaders and kingpins in the age of data and data supremacy.

ACS Member Certification and IP3 Accreditation

In 2000, the Australian Computer Society (ACS) was admitted to the Australian Council of Professions—now Professions Australia, making the ACS, one of the first computer societies in the world to achieve this status. Professions Australia is the peak body for all professions in Australia including doctors, lawyers, accountants, engineers, and other professions.

ACS' contribution to promoting global standards for professionalism in ICT is long and distinguished. ACS is one of the founding partners of IP3 and was the first computer society to have their certification program accredited by IP3. The accreditation applies to the Certified Professional (CP) at SFIA Level 5 and Certified Technologist (CT) at SFIA Level 3.

In addition, ACS has been able to advocate for the establishment of professional ICT benchmarks through legislation in Australia including the:

1. Professional Standards Legislation: The IP3 accredited certification is recognised under the Professional Standards legislation: www.psc.gov.au/professional-standards-schemes/what-are-schemes. This recognition is administered by the Professional Standards Councils in Australia. Certified Professionals are protected by a special ACS member insurance policy and capped liabilities under Professional Standards legislation.
2. Professional Employees Award 2010: which defines minimum wages and employment conditions for ICT professionals.

The ACS professional and certified members schemes are due for re-accreditation by IP3. ACS President conveys his apologies for the delays due to existing constraints.

The Australian Government has launched the Digital Profession initiative to address current and future digital capability needs for the Australian Public Service. The Australian Government has made the Skills Framework for the Information Age (SFIA) free for all Australians and will manage the Australian country-wide SFIA license (SFIA-AU) on behalf of the Australian Government.

Canadian Information Processing Society (CIPS)

Overview of Society

The Canadian Information Processing Society is a federation of 10 member Provincial Societies. The core functions of Provincial Societies include meeting the legislative requirements associated with their Acts, protection of the public from the misuse of technology, certification, and overseeing a complaint and disciplinary process brought against any of their members.

All Provincial Societies come together to set National policies and standards to facilitate the portability of IT professionals across Provincial Societies. Provincial Societies have outsourced the day-to-day administration of maintaining a member database and assessing applications for certification to the National body. The CIPS National body is also responsible for the accreditation of computer science, software engineering and interdisciplinary programs offered by Universities and Colleges.

Activities in 2020-21

In the past year CIPS achieved two of its long-standing goals – IP3 accreditation for its Professional certification, and hiring its first-ever CEO. In addition, a national planning initiative resulted in the creation of a strategic plan, now being executed.

Elements of the strategic plan currently in progress include:

- re-building the CIPS brand
- developing partnerships with industry and government
- aligning its remaining certifications to SFIA, and
- adopting a new platform for an updated website and automated processes.

Early accomplishments and successes include re-starting its practice of preparing proposals for funding related to national ICT topics and initiatives, beginning a one-year trial of SFIA self-assessments, signing MOUs with the CIO Security Council and the Responsible AI Institute (RAI), rekindling relationships with other Canadian ICT organizations, and reaching out to a few of the IFIP Member Societies' Presidents and CEOs.

IFIP-related activities include Canada being a member of the IFIP ICT Code of Ethics Task and Finish Group, meetings between the Saskatchewan Provincial Society and TC3 regarding a potential bid for a future WCCE, and a country IFIP 60th anniversary event planned for later in 2021

CIPS membership has gone down slightly due to the impact of the ongoing pandemic, while the reach of its programs has increased with the now-normal virtual delivery. Membership continues to be strongest in Saskatchewan, where the province requires a CIPS certification for two of its ICT immigration workstreams. At least one other province is working towards realizing the same immigration success, and more are expected to follow.

Computer Society of Zimbabwe

A Brief 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 the Software Development Community Special Interest Group (SIG) whose mandate is to promote software development skills in the digital era, and now includes widespread accessibility to ICT 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.

IP3 Accreditation

The Computer Society of Zimbabwe has not yet applied for IP3 accreditation but is moving towards that. In that regard the CSZ has introduced the professional member grades and we already have members in those different grades.

Computer Society Sri Lanka (CSSL)

CSSL are working towards IP3 accreditation, and discussions between the CSSL Executive Committee and IP3 are underway.

www.cssl.lk

Information Processing Society of Japan

Overview of Society

Information Processing Society of Japan (IPSJ) was founded in 1960 and has 19,758 individual members and 265 corporate members as of March 2021. IPSJ has an objective to contribute to the development of science, culture, and industry through the promotion of academic and technical activities in information processing with a focus on computers and communication.

IPSJ has a broad range of activities including 41 SIGs in the domains of Computer Science, Information Environment, and Media Informatics, annual national conventions, hosting of international conferences, contribution to international standards, and contribution to IT education. IPSJ publishes IPSJ Magazines, Journals of Information Processing (JIP), Transactions in 10 areas, and DP Reports.

IPSJ aims to enhance its value by providing services to public society such as proposals to the Japanese government, as well as extending collaboration with professionals in the industry through the event IT Forum 2020 founded in place of Software Japan, the communities called IT forums, and the certification of high-level IT Professionals called Certified IT Professional, CITP.

IPSJ has a global relationship with IEEE-CS, ACM, KIISE, CCF, etc.

IP3 Accreditation

IPSJ was accredited by IP3 in February 2018 on its certification system of Certified IT Professional (CITP). The system is operated in two methods: the direct method and the indirect method.

In the direct method, IPSJ certifies individuals by examining application documents that describe the applicant's knowledge level and the demonstration of skill and competency in business experiences. This operation is performed twice a year. The evaluation is based on the Skill Standards for IT Professionals (ITSS) developed by the Ministry of Economy, Trade, and Industry. IPSJ started the first public operation of this method in June 2014 after two piloting operations in 2013. As CITP has an effective certification period of three years, the renewal process of CITP was put into practice from 2016.

In the indirect method, IPSJ accredits internal certification systems of companies if they are comparable to the direct method explained above. This operation is performed once a year. Once accredited, IPSJ issues the certificates of CITP to the professionals certified within the companies based on the requests from the companies. This is a kind of the Trusted Source Arrangement. IPSJ started the first public operation of this method in the fall of 2015 after a piloting operation from September 2014 to April 2015. The effective period of accreditation is 5 years.

As of March 2021, 10,306 CITPs have been certified including the ones certified through the indirect method. By the indirect method, nine internal certification systems of companies have been accredited. CITPs had established a professional community called "CITP Community" and held meetings every two months. They have organized special interest groups (SIGs) in five areas: civic tech, transmission of knowledge, support of programming education, communication among around-thirty-year-old engineers, and advisory to CITP scheme. The community held its session in the IT Forum 2020 event founded in place of Software Japan.

From April 2019, IPSJ also recognizes a Professional Engineer, Japan (P. E. Jp) where the technical discipline is Information Engineering (Computer Engineering, Software Engineering, Information Systems & Data Engineering, Information Network Engineering). The qualification will be registered as a CITP. If the registered P.E. Jp can formally prove CPD (continuing professional development) and periodical updates of their certification, they can also use the proof for CPD and periodical re-certification to CITP. Approximately 100 P. E. Jp's have registered as CITP in response to this arrangement as of August 2021.

The international standard of professional certification, ISO/IEC 24773:2008, Certification of software engineering professionals - Comparison framework, is being revised at ISO/IEC JTC1/SC7/WG20. The new 24773 is a conformance standard for certification schemes for software and systems engineering. IPSJ joins this revision project by appointing a co-editor. The standard has four parts. Part 1 is "General Requirements" and was published in March 2019. Part 2 is "Guidance Regarding Description of Knowledge, Skills, and Competences in Certification and Qualification Schemes." Part 3 is "Systems Engineering" and was published as an IS in September 2021. Part 4 is "Software Engineering." WG20 prepared CD drafts for Parts 2 and 4 and

decided to initiate CD ballots for them in August 2021. ISO/IEC 24773 is expected to give a significant impact on the certification system accredited by IP3 and the IP3 accreditation system.

IPSJ developed and published a curriculum standard for university-level education majoring in data science in April 2021. The curriculum standard covers a wide range of related fields to ensure international compatibility through mapping to the ACM Data Science curriculum and the European EDISON Data Science Framework. It also collaborates with the IPSJ Data Scientist certification (under development).

As a part of the IPSJ Data Scientist certification, IPSJ has accredited an internal certification including data scientist certification of Hitachi, Ltd in September 2021. IPSJ also announced its data science strategy in April 2021 and declared to develop a framework including the collaboration of data science education at school and university, and data scientist certification at the industry.

Summary of the IPSJ activity on data science will be introduced at an IFIP 60th Anniversary Future of Information Processing Event Series in September 2021.

27 September
15:00-16:15 CEST



Strategic Collaboration of Certification and Education on Data Science

Moderated by:



Tetsuro Kakeshita
Information Processing Society of Japan

Yuri Demchenko
Edison Data Science Project

Boots Cassel
ACM Data Science Task Force

Kewal Dhariwal
Institute of the Certification of Computing Professionals

Moira de Roche
IP3 / IITPSA

IFIP 60th Anniversary *Future of Information Processing* Event Series

IT Professionals New Zealand

Overview of Society

IT Professionals NZ (ITP) is a community of thousands 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 more than 60 years, ITP is the largest and most trusted tech body in New Zealand.

ITP works hard to improve both the education and professional development of those broadly working with computers and technology and the computer-related education of the country as a whole. There are round 10,000 members (via individual, corporate and other engagement).

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

ITP also actively represent the profession and the sector on many different 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 offers tertiary degree accreditation aligned to the Seoul Accord (of which ITP is a provisional signatory), member certification in the form of Chartered IT Professional NZ (CITPNZ) and Certified Technologist (CTech), promotion of IT as a career choice in schools, a mentoring programme, over 200 events and short courses each year and much more.

Social Responsibility

ITP 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.

Thought leadership

ITP 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 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.

ITP 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 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).

IP3 Accreditation

ITP strongly supports IP3 activities and the vision of the global profession that IP3 was established to progress. However, at this stage, ITP does not have immediate plans to undertake IP3 accreditation given the current structure of certifications offered.

ITP operates a variant of Chartered IT Professional (CITP) certification for senior professionals, licensed from the BCS in the UK, being CITPNZ. If BCS were to undertake IP3 accreditation it would likely also cover CITPNZ as it is based on the CITP standard.

IITP also operates Certified Technologist (CTech) certification at SFIA Level 3 but is unlikely to seek IP3 Accreditation of CTech in isolation.

IITPSA (Institute of Information Technology Professionals South Africa)

Overview of Society

IITPSA is a South African Qualifications Authority (SAQA) recognised professional body, and our professional designation (PMIITPSA®) is registered on the National Qualifications Framework. During September 2017, our SAQA recognition was renewed for our second five-year term. We are currently engaged in the early stages of the re-recognition process for September 2022.

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), and others. The Institute is a member of the National Science and Technology Forum.

Our membership consists almost entirely of individual practitioners, 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).

The impact of the COVID-19 pandemic and extended lockdown periods in South Africa from the 26th March 2020 have, unfortunately seen a negative impact on membership numbers (both renewal and new applications).

We have a number of Communities of Practice representing the special interests of different groups of members, such as Artificial Intelligence and Robotics, Cyber Security, Blockchain, Software Testing, Innovation, Enterprise Architecture and Entrepreneurship, amongst others. The Special Interest Groups host events (some monthly) of relevance to their communities of practice.

IITPSA has a Women in IT Forum (WIIT), which is run as a Chapter of the Institute. The main aim of this forum is to help create awareness of the potential role for Women in the world of IT and to hopefully help address the gender imbalance in our profession. As further support in this area, IITPSA offers an annual bursary award, which is targeted at women recipients. During this past year, the WIIT committee has introduced a new logo, updated the website and kicked off a mentorship programme.

IITPSA has nominated representation on the South African Bureau of Standards (SABS) Technical Committees, the international SFIA Council, the Computer Science Advisory Board at the University of Pretoria, the Industrial Advisory Board - School of Electrical and Information Engineering – University of the Witwatersrand and the Information and Cyber Security Centre (ICSC) Advisory Panel at the Council for Scientific and Industrial Research (CSIR).

As a recognised professional body, IITPSA also engages with the South African Qualifications Authority, the Department of Home Affairs, the Department of Science, Technology and Innovation, the Department of Communications and Digital Technologies and the Department of Higher Education and Training.

Improving our activities in Thought Leadership remains a strategic objective of IITPSA and we hosted numerous webinars, collaborated with industry event organisers and published many press releases and thought leadership pieces during the past year. Our collaboration with the Joburg Centre for Software Engineering at Wits University on the annual ICT Skills Survey is currently underway.

IP3 Accreditation

- IITPSA received full IP3 Accreditation (for five years) for our Professional Membership Programme during July 2015. This was approved by the IP3 Board on 31 July 2015.

- In July 2020, IITPSA applied to IP3 for re-accreditation of our Professional Member designation (PMIITPSA®) programme, as well as for accreditation of our new designation programme for Professional Chief Information Officers (Pr.CIO®). We are delighted to note that re-accreditation (PMIITPSA®) and accreditation (Pr.CIO®) were both awarded to IITPSA in December 2020 by the IP3 Board. We were also very pleased to be advised that the IITPSA Pr.CIO® accreditation is the very first for a professional designation at SFIA level 7.

Korean Institute of Information Scientists and Engineers (KIISE)

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.

KIISE publishes its research journals and periodicals 48 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 workshops and 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).

IP3 Accreditation

KIISE, KOSA (Korea Software Industry Association, <https://eng.sw.or.kr/main/index.html>) and SPRI (Software Policy and Research Institute, <https://spri.kr/>) initiated a joint project to enhance reference models of skills and competencies of ICT professionals in Korea in July, 2020. The goal of the project is to improve ITSQF (IT Sectional Qualifications Framework) so that it is accepted by more ICT industries and the government in Korea. KIISE will extend the project and prepare for the IP3 accreditation in Korea.

KNVI - Koninklijke Nederlandse Vereniging van Informatieprofessionals (Royal Netherlands Association of Information Professionals)

Overview of Society

KNVI, based in the Netherlands, Europe, has 3500 members. Website: <https://www.knvi.nl/>

Via social media like LinkedIn KNVI reach a number of 7000 unique followers.

The Royal Dutch Association of Information Professionals (KNVI) can be seen as the 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 professionalization of employees in the Information and Communication field in general and in particular of its members
- b) Representing the interests of the professional field in the event of (domestic and European) policy changes and exercising control over policy making
- 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 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, Interest Groups (IGs) and Regions.

KNVI is member of CEPIS, ITPE, ICDL, IFLA, IFIP, NEN mirror committee TC428, CENTC 428, participate in different ISO committees and support start-up organisations like Foundation for Responsible Robotics (FRR).

KNVI- IP3

The IP3 objectives translate KNVI in European perspective by being part of following activities:

- In order to fill a gap, the community of IT professionals, industry and academic representatives and the Council of Professional Informatics Societies (CEPIS) has established the expert group IT Professionalism Europe (ITPE), in part to take forward a wider consultative role. The first action was signing by KNVI their Declaration on IT Professionalism for Europe.
- “Standardising is a mean to further mature a profession. The European framework for IT professionalism and digital skills, as currently is set-up, provide a standard that includes not only IT competences, but also other essentials for any IT professional: foundational body of knowledge, accreditation, education and training qualification, assessments, certification, and finally ethics and code of conduct”.
- The intention is that standards developed within the European CEN/TC 428 can play an important role in understanding of and bridging different schemes developed in different committees. Although a large number of specific technology standards are developed under supervision of ISO, they are not yet looking at IT professionalism and the competences needed by ICT professionals in general and in the broader context.

- The current plans of the European Commission show more and more an understanding of the importance of IT and new technologies as an enabler of new growth and achieving the targets of the Green Deal for example as expressed in the “*2030 Digital Compass: the European way for the Digital Decade*”. The EU writes that Europe in the world of tomorrow must rely on a digitally skilled workforce and needs “way more digital experts than today”. The gap is perceived from 8 currently to 20 million professionals required in 2030.
- Europe’s Digital Future is linked to the 2050 climate-neutral target. A result of the linking is that the digital transformation monitor is transformed into the Advanced Technologies for Industry monitor¹. This Monitor is looking at sixteen advanced technologies (listed below) that are a priority for European industrial policy.

<ul style="list-style-type: none"> • Advanced materials • Advanced manufacturing • Artificial Intelligence • Augmented and Virtual Reality • Big data • Blockchain • Cloud technologies • Connectivity 	<ul style="list-style-type: none"> • Industrial biotechnology • Internet of Things • Micro- and nano-electronics • IT for Mobility • Nanotechnology • Photonics • Robotics • Security
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Swiss Informatics Society

<https://swissinformatics.org>

Overview

Official association for IT professionals in Switzerland, including academic research and educational institutions. Approximately 1500 members and 20+ special interest groups. Strategic development towards a social enterprise in the areas of raising the level of IT literacy across the Swiss society and IT professionalism, respectively. Holder of the ECDL license in Switzerland and shareholder of the 3L Informatik AG enterprise. Organizer of the Digital Summit, an annual event in collaboration with ETH with the goal of informing the public about the newest trends and topics in IT from an academic point of view.

¹ <https://ec.europa.eu/growth/tools-databases/dem/monitor/content/welcome>

Appendix 1: Statement of Financial Position

Financial position for 12 months ended 30 June 2021

	1 July 2020 – 30 June 2021	1 July 2019 – 30 June 2020
	Actual €	Actual €
Opening balance held in IFIP accounts as of 1 July	36,529.03	46,571.02
Receipts		
Membership Fees	-	-
Sponsorship*	-	-
Total receipts	0	0
Expenditure		
Travel and associated expenses	195.17	2,886.92
Website	0	140.63
PR/Marketing	-	-
Meetings (Room Hire & Meals)	-	1,024.44
Other (Share of Code of Ethics booklet printing costs)	1,180.06	4,360.00
Award (Prize & travel)	-	1,630.00
Total expenditures	1,375.23	10,041.99
Excess of expenditures over receipts	-1,375.23	-10,041.99
Total equity carried forward to next period:	35,153.80	36,529.03
Ringfenced Award Sponsorship reduced by expense	7,606.45	7,606.45
Available Equity	27,547.35	28,922.58

Notes and additional detail to Statement of Financial Position

Expenditure was exceptionally low, because of travel restrictions.

Note 1: Reporting year

The reporting year was changed from calendar year to IP3 July-June year effective 1 January 2012 however the accounting year for IFIP audit purposes remains calendar.

Note 2: IP3 Members' contributions*

IFIP IP3 acknowledges the following in-kind contributions from member organisations. These contributions should be considered when the statement of financial position is reviewed, and when contemplating the value that the IP3 Project brings to its parent organisation, IFIP.

Strategic activity	Hours
<i>Board members in policy and governance, annual meeting, 5 board meeting teleconferences</i>	<i>150</i>
<i>IP3 Board members in program activity e.g. presentations at International events</i>	<i>1000</i>
<i>Marketing: collateral, website, and communications</i>	<i>100</i>
<i>Members advocacy of IP3 to prospective partners</i>	<i>50</i>
<i>Strategic Relations and industry engagement not including interview podcasts</i>	<i>150</i>
<i>Standards and Accreditation development **</i>	<i>50</i>
<i>Recruitment and stakeholder engagement</i>	<i>1,000</i>
Conservative estimate of member contribution in hours	2,500

* Monetary value of members' contributions calculated at a nominal €80 per hour is an estimated €200,000 (conservative estimate).

**There are problems with allocating time to this task.

Appendix 2: More about IFIP IP3 Global Industry Council

IP3-GIC Purpose

Create a vehicle to:

- Provide a global forum under the auspices of a UNESCO-sanctioned body for the frank and open discussion of matters of common interest.
- Demonstrate a public commitment to professional ICT standards.
- Play a real and active part in developing the global ICT Profession.
- Provide detailed comment of the certification requirement and on the shape and content of development and support services for professionals.
- Provide valuable support to the growth of ICT capability within developing nations.
- Create a mechanism for the IP3 Board to:
 - Obtain valuable, independent input from industry.
 - Engage with outside organizations and keep them interested and actively involved in IP3; and
 - Generate a modest level of subscription income from industry to support the activities of IP3.

IP3-GIC Mandate

- Provide a neutral venue for sharing issues and solutions of interest to major global organizations, with facilitation by IP3, if required
- Assist IP3 in enabling projects to further the goals of IP3 in developing nations
- Articulate the needs of industry to IP3, specifically those which can be addressed through ICT professionalism, certification, and activities related to the IP3 mandate
- Review current or proposed IP3 standards, programs, or policies to advise on their effectiveness in industry
- Propose specific initiatives aside from accreditation and ICT professional standards which IP3 may wish to undertake to collaborate more effectively with industry and specific outside groups
- Offer expert advice and insight to help IP3 remain responsive to the needs of industry with respect to ICT professionals, professional skills, and competence
- Recommend individuals who can make a valuable contribution to the work of the IP3 Professional Standards Council and Committee
- Discuss ways in which IP3-GIC and individual Council members may help to advance IFIP and its relevance to the Global Community.
- Provide Thought leadership and develop tools that can be used to promote IFIP.

[Click here for GIC Director list with CV's.](#)

Appendix 3: Acronyms and abbreviations

Acronym	Full description
ABEEK	Accreditation Board for Engineering Accreditation of Korea
ACS	Australian Computer Society
AEF	Astana Economic Forum
BCS	British Computer Society
CEPIS	Council of European Professional Informatics Societies
CIO	Chief Information Officer
CIPS	Canadian Information Processing Society
Commbank	Commonwealth Bank of Australia
CP	Certified Professional
CSI	Computer Society of India
IITPSA	Institute of Information Technology Professionals South Africa
CT	Certified Technologist
EA	Enterprise Architecture
FEAPO	Federation of Enterprise Architecture Professional Organisations
GIC	Global Industry Council
ICCP	Institute for the Certification of Computing Professionals
IEEE-CS	Institute of Electrical and Electronic Engineers – Computer Society
IFIP	International Federation for Information Processing
IIBA	International Institute of Business Analysis
ITP NZ	Institute of IT Professionals New Zealand
IPSJ	Information Processing Society of Japan
ISACA	Information Systems Audit and Control Association
ITU	International Telecommunication Union
KAIST	Korea Advanced Institute of Science and Technology
KIISE	Korean Institute of Information Scientists and Engineers
NASSCOM	National Association of Software & Services Companies (India)
PD	Professional Development
PPP	Professional Partner Program
SAC	Standards and Accreditation Council
SEARCC	South East Asia Regional Computer Confederation
UN	United Nations
UNESCO	United Nations Educational, Scientific and Cultural Organisation
WCC	World Computer Congress
WCF	World CIO Forum
WSIS	World Summit on the Information Society