

2nd IFIP International Internet of Things (IoT) Conference 31 October – 1 November 2019 Tampa, Florida, USA

IoT is hot. Experts and organizations are addressing the topic in policy statements, papers and conferences. There are many aspects to be looked at when talking about IoT. Earlier developments were quite focused on the lower level aspects such as interfacing, communication protocols and standards, base platforms, energy efficiency and energy harvesting, smart devices and smart sensors, etc. With the exponential growth of the number of devices and sensors connected to Internet and their increasing levels of embedded intelligence, other relevant challenges emerge, including organizational structures, collaborative cyber-physical ecosystems, end-user development, self-organizing systems, distributed decision making, collective adaptive and cognitive systems, behavioural models, systems resilience, handling big data, etc. The IFIP International Internet of Things (IoT) Conference addresses this wide variety of aspects. Papers will show technical advancements, research on major questions, policy issues, and so on. Perspectives will be from the people and organizations involved (users, user organizations, ICT professionals, ICT industry, authorities / regulators) and from the phase of an IoT system or component (development, production / manufacturing, implementation, maintenance, management, use).

Main topics of interest (non-exhaustive list)

- Education, training, awareness
- End-user development
- Usability and accessibility
- Context-dependent applications
- Environmental issues
- Organizational and collaborative structures
- Risks, privacy, security, and resilience issues
- Impact on persons and society
- Novel applications and business models
- Professionalism/duty of care
- Technical issues and challenges
- IoT networks
- IoT architectures
- IoT devices
- IoT Low Power Design

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- IoT Standards
- CAD for IoT
- Internet of Everything, People, Health, ...
- Legal issues (incl. liability)
- Ethical issues

Submission Guidelines

Submitted papers must be original, unpublished, and not submitted to another conference or journal for consideration. Accepted papers will be presented at the conference and included in the post-conference edited book published in the IFIP Advances in Information and Communication Technology (AICT) series by Springer Nature. See <https://www.springer.com/series/6102>

All papers must be written in English. Submissions should be at most 18 pages long in total including references and appendices. Submissions should not be anonymized. Program Committee members are not required to read the appendices, so the paper should be intelligible without them.

Authors must follow the Springer formatting instructions. Each paper will receive at least 3 reviews. At least one author of each accepted paper must register by the early registration date indicated on the conference website and present the paper.

For paper submissions go to <https://easychair.org/account/signin?l=ZaP9luKLt8cOuRRb1j11qN>

For more information visit the congress website <http://ifip-iotconference.org/2019/> or feel free to contact Leon Strous at strous@iae.nl or Srinivas Katkoori at katkoori@mail.usf.edu

TFC 2019

TRIZ future conference 2019 (TFC'19) aims to promote TRIZ knowledge, tools and methods worldwide. TFC'19 will bring together industrials and academics to share experiences, industrial cases and scientific researches related to TRIZ good practices and last developments. TFC'19 will be hosted by ENSA Marrakesh October 10-11-12th 2019. www.tfc19.ma



Global ICT Body Calls for Professional Standards in Wake of Boeing Disasters

IFIP IP3 Wants ICT Practitioners Working with Safety Critical Systems to be Certified

Thursday 28 March 2019: The global professional body for the technology sector has called for minimum professional standards for ICT practitioners working on computer systems where human life might be at risk.

The call – from IP3 (International Professional Practice Partnership), the professionalism arm of IFIP (International Federation for Information Processing) – follows reports that Boeing has developed a software patch to address the glitch in the 737 MAX 8 planes that caused two major airline crashes in the past 12 months and killed nearly 350 people.

IP3 Chair, Moira de Roche wants defined standards in terms of qualifications and experience for ICT practitioners involved in designing, testing and maintaining safety critical software systems, such as those used in transport, health and other sectors where system failure can cause death.

“Society used to believe that ICT practitioners did not have to be professionals because what they do is not life threatening,” said Ms de Roche. “However, these crashes involving the Boeing 737 MAX 8 planes prove that software errors can threaten hundreds of lives at a time.”

IP3 accredits national member societies to certify ICT practitioners who meet minimum standards for technical knowledge and skills, which are continually updated through continuing professional development, and who are committed to a Code of Ethics and accountable for developing and maintaining trustworthy ICT systems.

Reports this week claim that Boeing has completed, and is now testing, a software patch to prevent the controversial Manoeuvring Characteristics Augmentation System (MCAS) from being triggered multiple times, which is what is believed to have caused the recent 737 MAX 8 crashes.

According to a recent Boeing statement, “We’ve been working diligently and in close cooperation with the FAA on the software update. We are taking a comprehensive and careful approach to design, develop and test the software that will ultimately lead to certification.”

Ms de Roche said tighter standards are needed to ensure that the public is protected when flying.

“While it’s heartening to hear that Boeing has provided a patch to fix the issues in the MCAS software which have been blamed for the recent crashes, we need to ensure this kind of situation never happens again. We also need to question whether other unexplained aviation disasters over the past few years were also caused by software problems,” she said.

“We believe that anyone working to design, build or test software systems that operate in high risk environments such as transport, health, mining and more, should be required to demonstrate defined levels of knowledge, skills and ethical conduct so the public can feel confident that these systems are trustworthy.”

IFIP launches IFIP SELECT

A new IFIP journal called IFIP SELECT with papers for IT-professionals

IFIP SELECT, a new journal from IFIP (International Federation of Information Processing) has been launched and can now be accessed under ifip.org/select.

The purpose of initiating a new IFIP journal is to obtain a better outreach and diffusion of some of the excellent research carried out and presented within IFIP's Technical Committees and Working Groups. However, IFIP SELECT will not just gather and (re-)publish excellent research papers. It will do more than that: Says Jan Pries-Heje, Editor-in-Chief of IFIP SELECT: "We have asked the authors of the papers to write 2-3 pages adding information & discussion on the practice contribution of their research. So the new electronic journal has links to the originally published papers as well as to additional information on how the research contribution can be applied or influence practice."

"It is IFIP's hope that the additional information will increase the value significantly for the member of IFIP member societies." adds Kai Rannenberg, IFIP Vice President and chair of IFIP's Publication Committee. "Thus we have aimed for an electronic format to which IFIP member societies can link to e.g. on their website. In that way we hope to reach out to the many thousand members of IFIP member societies and IT professionals all over the world."

The first issue of IFIP Select now contains six papers from TCs 3 (Education), 8 (Information Systems), 9 (ICT and Society), and 13 (Human-Computer Interaction). Thanks go to those TCs to be fast to support the new journal as well as to Springer, IFIP's publisher, who made those papers published in Springer outlets accessible for free.

The way the Editors have chosen and ensured the quality of the six papers in this first issue is the following. First, the idea of initiating a new journal was approved by IFIP's publication committee and the IFIP General Assembly. Then the Editor-in Chief wrote a letter to all the chairpersons of IFIP's Technical Committees asking them to appoint excellent papers where the research presented would be relevant to IT professionals. Third, the Editors contacted the authors and asked them whether they would be willing to write a 2-3 page paper in "addition" to their original research paper.

Following this process six additional papers were received. A small editorial committee consisting of the New Zealand National Representative to IFIP Elizabeth Eastwood and Jan Pries-Heje, also former chair of IFIP TC 8 and Danish National Representative to IFIP, read and edited the papers. This review process was done with a view to what an IT professional would be interested in and wanting to read as well as whether the addition gave a good introduction to the research in the original paper.

After some editorial rounds with the authors about the edits and suggestions all papers were then ready for the first issue of IFIP SELECT. While readers now can enjoy this first issue, the Editors are about to invite new suggestions from TC Chairs to reach them by mid-May to publish a second issue of IFIP SELECT in autumn.

News from AICA (Italy)



On January 15th AICA's Steering Council voted Giovanni Adorni as the new President for the term 2019-2021. Giovanni is full professor at University of Genoa and Italian National Representative in IFIP's TC 12 "Artificial Intelligence".

Nello Scarabottolo, full professor at University of Milan and Past President of CEPIS, has been appointed as the first Vice-President of AICA.

Paolo Schgör, AICA's representative at the IFIP GA, was confirmed as Treasurer and Managing Director.

IT Ukraine Association joined IFIP as National Member at Large

The IT Ukraine Association was founded in 2004 by leading IT-companies of Ukraine - Miratech, Mirasoft, ProFIX, SoftLine, SoftServe and Ukrsoft. During the years of operation, the Association has become the largest community of service IT- companies in Ukraine.



IT Ukraine Association

Today the Association includes 58 leading Software Development companies, which collectively account for 50% of the total revenue of the industry in Ukraine.

CLEI Latin American Computing Conference in 2019 to be held in Panama

The Latin American Computing Conference is an annual event organized since 1974 by the Latin American Center for Computing Studies (CLEI), rotating among Latin American countries. The Conference brings together hundreds of researchers, professionals, teachers and students in a forum to discuss topics addressed to the areas of Computer Science, Information Systems and other areas of Information Technology, as well as the direct impacts of ICT in the society as a whole. Its objective is the exchange of ideas, experiences and research results in the areas of interest of the community, through conferences, workshops, tutorials and panels.

CLEI 2019 will be held in Panama City, Panama from September 30 to October 4, 2019. The conference includes nine symposiums and several associated and satellite events. Researchers from all the world are invited to submit their work to the conference, which applies a strict peer-review process. The deadline for paper submissions is 2 April 2019, with confirmation provided by 15 June.

More information on the event is available at <http://clei2019.utp.ac.pa/en/>.

YPO to Host Largest Annual Gathering of Global CEOs in Cape Town, South Africa, 6-7 March 2019

<https://www.pulse.ng/apo/ypo-to-host-largest-annual-gathering-of-global-ceos-in-cape-town-south-africa-6-7/bvj36gc>

YPO (<https://www.YPO.org>), the premier leadership organization for chief executives in the world, will host more than 2,000 business leaders at YPO EDGE in Cape Town, South Africa, 6-7 March 2019. YPO EDGE is YPO's annual showcase of thought leadership and innovation, bringing together visionaries, talented leaders, subject matter experts and unique voices from around the world to engage and inspire all that attend this invitation-only event.



“Cape Town is the ideal host city for YPO EDGE,” said Paul Berman, YPO member and Host City Chair. “The city is a renowned gateway to the worlds of business, technology, culture and innovation, and we are delighted for this opportunity to showcase all that the city has to offer to the talented group of global leaders who will be attending this premier event. YPO EDGE presents a very tangible way to showcase our country and the exciting future we have ahead of us to some of the world’s most influential business leaders.”

During a time of radical economic, technological, and societal change, leadership methods are being redefined and retooled to adapt for the future. The theme of this year’s YPO EDGE, Life of RE_, aims to provide opportunities, support and inspiration for young leaders as they reinvent themselves and their industries.

“For two remarkable days, YPO members will lean forward into the future and get connected to new ideas and fresh perspectives,” said YPO CEO Scott Mordell. “We are so looking forward to hosting these extraordinary global leaders in the wonderful city of Cape Town.”

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From business sustainability to food scarcity solutions, YPO EDGE will feature many hot topics and brilliant minds including

- Massimo Bottura Top chef in the world and fighting food waste.
- Stephen Ibaraki Chairman REDDS Capital, Founder UN ITU AI for Good
- Anne-Marie Imafidon Co-founder STEMettes
- Dr. Vivienne Ming Co-Founder, Socos Labs
- Trevor Noah Comedian, Author, Host of “The Daily Show”
- Meik Wiking Founder and CEO, The Happiness Research Institute
- Mary Mazzio CEO, 50 Eggs Films
- Carlo Ratti Director, MIT Senseable City Lab and Founding Partner
- Carlo Rovelli Physicist & Author, The Order of Time
- Andria Zafirakou Winner of the Global Teaching Prize
- Manoush Zomorodi Co-Founder, Stable Genius Productions

After the event, YPO will create a real-world example of theLife of Re_as it plans to repurpose structural elements from the event to be donated to community projects in Langa, historically known as Cape Town’s oldest township.

“We are purposefully reinvesting in the local community as a way to thank our host city,” added YPO EDGE Chair Ravi Naidoo. “We hope this important initiative will have both a positive impact and a lasting legacy on Langa long after the grateful leaders of YPO have left our shores.”

Beverley Schäfer, Minister of Economic Opportunities in the Western Cape said: “We are delighted to be hosting the YPO EDGE delegates in Cape Town this year. The conference will give us an opportunity to showcase Cape Town and the rest of our province as a tourism, events and investment destination to a network of chief executives and thought leaders from around the globe. As a province, our focus has been on growing an economy for the future with a focus on tech, innovation and the green economy. This year’s theme of theLife of Re_is perfectly aligned to our focus on reskilling, redefining and recycling, and I believe the YPO delegates will find a lot to be excited about here.”

Paul Berman further shares, “We have a once in a lifetime opportunity to present South Africa to this group of business leaders and demonstrate, after a period of adverse international publicity, how we are overcoming our challenges. We have a chance to show that we are a nation at one, committed to work, to build, to change and to progress.”

About YPO: YPO (<https://www.YPO.org>) is the premier global leadership organization for more than 27,000 chief executives in over 130 countries and the global platform for them to engage, learn and grow. YPO members harness the knowledge, influence and trust of the world’s most influential and innovative business leaders to inspire business, personal, family and community impact.

Today, YPO member-run companies, diversified among industries and types of businesses, employ more than 22 million people globally and generate USD9 trillion in annual revenues.

IP3 News



Chair report

David O'Leary Award

The most exciting news this quarter is that IP3 made a proposal to the Kay Family Trust, requesting funds for a prize in the name of the late David O'Leary. The proposal was successful, and we will have funding for a prize to acknowledge an individual or organization that has promoted and demonstrated Professionalism (Professional Practice), has worked as an Ethics Evangelist, and/or has made strides in fostering diversity. An Award provides a vehicle to identify exemplars of best practice in the field, to give them the recognition they deserve and to provide a goal for other aspirant practitioners and entities. The funding received is enough for a cash award, as well as travel to GA for an individual to receive the award, for a period of three years.

David P. J. O'Leary ISP, ITCP / IP3P passed away in 2018. He embodied and demonstrated all the qualities that make a true Professional. He was an IFIP Global Industry Council member and made a valuable contribution to the Skills 2020 report, acting as editor-in-chief. Some of his many contributions and achievements are described below.

Women in Tech Africa Conference

I chaired a session at the conference, which was attended by more than 500 women, mostly from the African continent. I took the opportunity to briefly introduce IFIP & IP3, as well as promote Trust and the Duty of Care.

Future of Professionalism for Digital Skills Around the World

A team of IP3 directors, under the leadership of Liesbeth Ruoff (KNVI), and invaluable guidance from Leon Strous, have created a Project Proposal, which aims to find sponsors and support for this project. Using "*The future of productivity report*" from the OECD 2015, this proposal brings into practice the sentences "*that future growth will largely depend on our ability to revive the diffusion machine both within and across countries. The list of structural obstacles to diffusion is long. Four factors are key to have a more effective diffusion. One is to reap the full benefits of new technologies, investments are needed in education and skills*".

The goals and deliverables set in this proposal are:

- to make a repository of best practices, frameworks and use cases worldwide around the development and the usage of frontline digital technology;
- practical recommendations based on findings;
- start a platform of experts based on the inventory of best practices and use cases around the development of the ICT profession.

With these goals and deliverables IFIP contributes to the development of appropriate regulatory frameworks and consensus on best practices for developing and deploying frontier technologies.

We look forward to sharing developments on this in future and encourage everyone to participate as the process goes forward.

World Summit for Information Society (WSIS)

As we have since 2012, IP3 will host a Thematic Workshop at WSIS in Geneva. WSIS takes place from 8 to 12 April 2019. IP3's workshop will be held on 11 April at 16:30., and is titled "How do we maximise the benefits of Innovative 4.0 technologies, without unnecessary risks and consequences?" As Innovative 4.0

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Technologies including AI and algorithmic decision-making bring economic and societal benefits in many areas of our human endeavours, how do we maximise the benefits without exposing our Society to unnecessary consequences and risks?

Each speaker will speak for five to seven minutes, so that we maximise the time for audience participation. Moira will chair the session. We will invite audience participation after the first four talks, and then have Mike close the session. We are very pleased to include Austėja Trinkunaite, the Secretary-General CEPIS, and Liesbeth Ruoff, KNVI board director – their presence will give the panel a flavour of the valuable work that has been done in Europe on Digital Skills.

Click [here](#) for details of the Workshop and more about the full WSIS programme.

IPSJ

IP3 accredited Information Processing Society of Japan (IPSJ) announced that they recognize a Professional Engineer, Japan (P.E. Jp) whose technical discipline is Information Engineering (Computer Engineering, Software Engineering, Information Systems & Data Engineering, Information Network Engineering) to be registered as a certified IT Professional (CITP) accredited by IP3.

If the registered P.E. Jp can formally prove CPD and periodical updates of their certification, they can also use the proof for CPD and periodical re-certification for CITP certification.

IPSJ and Institute of Professional Engineers, Japan has developed an agreement in order to implement this arrangement.

IPSJ expects to develop a professional community of IT professionals through collaboration of other related societies such as this.

IP3 is very pleased with this development and hope to see similar partnerships in other regions.

What's Stephen Ibaraki been up to?

Stephen is the IP3 Vice-Chair of Strategic Relations

Stephen has completed these interviews:

INTERVIEWS

[RSS feed](#)

[RSS Podcast feed](#)

[VIDEO INTERVIEW: Abraham \(Avi\) Loeb: Frank B. Baird, Jr., Professor of Science, Harvard University; Founding Director of Harvard's Black Hole Initiative; Chair of Harvard Astronomy Department; Director of Institute for Theory and Computation \(ITC\)](#)

[VIDEO INTERVIEW: Blaine Bey and Brent Reed - Top Leaders in IT](#)

[VIDEO INTERVIEW: Chat with Eliezer Manor on Entrepreneurship for AI](#)

[VIDEO INTERVIEW: Michael Palumbo, Data Innovation and AI Architect, Rolls-Royce](#)

[VIDEO INTERVIEW: Eliezer Manor, VC Icon](#)

[VIDEO INTERVIEW: Naomi Lee, Executive Editor - Digital at The Lancet](#)

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[VIDEO INTERVIEW: Chat with Co-Founders of Responsible AI Licenses Initiative](#)

[VIDEO INTERVIEW: Chat with Prof. Marcel Salathé](#)

[VIDEO INTERVIEW: Mike Tamir, Head Data Science, Uber AGT](#)

[VIDEO INTERVIEW: Robert B. Cohen, Senior Fellow, the Economic Strategy Institute](#)

[VIDEO INTERVIEW: Moira de Roche Chair IFIP IP3](#)

[VIDEO INTERVIEW: Amir Banifatemi, Avatar XPRIZE](#)

[VIDEO INTERVIEW: Chat with Prof. Dr.-Ing. Thomas Wiegand, Chair ITU Focus Group AI for Health \(FG-AI4H\)](#)

[VIDEO INTERVIEW: Pedro Domingos Top AI Professor University of Washington; Best Selling Author Master Algorithm; Holder top innovation/best paper awards](#)

[VIDEO INTERVIEW: More Conversation with Irakli Beridze, Head of the United Nations Centre for Artificial Intelligence and Robotics \(UNICRI\), Member AI Pioneers Forum](#)

[VIDEO INTERVIEW: Chat with Irakli Beridze, Head of United Nations Centre for Artificial Intelligence and Robotics \(UNICRI\)](#)

[VIDEO INTERVIEW: Ben Goertzel CEO SingularityNET, Chief Scientist Hanson Robotics, Chairman Artificial General Intelligence Society and OpenCog Foundation](#)

[VIDEO INTERVIEW: Mark Minevich, Digital Legend, Executive Chair AI Pioneers; B20/G20 Digital Task Force, Sr. Fellow UNOPS, US Council Competitiveness; Digital Fellow to CEO IPsoft](#)

Strategic Outreach

Stephen's completed his speaking at the largest notable CEO conference YPO Edge March 6th. YPO is the world's largest CEO organization with 27,000 CEOs, \$ 9 Trillion US annual revenue, employing 22 million, in 130 countries. Here is one of many news releases about YPO Edge where Stephen Ibaraki is highlighted <https://www.globenewswire.com/news-release/2019/01/25/1705355/0/en/YPO-to-Host-Largest-Annual-Gathering-of-Global-CEOs-in-Cape-Town-South-Africa-6-7-March-2019.html>. His speech (though not his slides) are captured in this video release by YPO <https://youtu.be/b6CgGf5iLOQ>. They also captured an impromptu two minute video which YPO released in LinkedIn: <https://www.linkedin.com/feed/update/urn:li:activity:6509030064091385856>

There are many other engagements this past quarter, too many to list here however two having a sustainable development theme in healthcare and blockchain are Ibaraki's two speaking engagements in March at the well known South-by-Southwest (SxSW) Conference in Austin where one was live streamed with Youtube video coming. The topic areas are in this schedule published by SxSW:

Blockchain <https://schedule.sxsw.com/2019/events/PP83980>

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Healthcare <https://schedule.sxsw.com/2019/events/PP92899> Facebook livestream archive
<https://www.facebook.com/W2OGroup/posts/761038700948990/>

In March, Stephen Ibaraki is also participating at the CEO-invite Fintech Ideas Festival March 27-28 in San Francisco <https://www.fintechideasfestival.com/>. The Fintech Ideas Festival was founded in January 2017 where Stephen Ibaraki founded and chaired the technology advisory council as noted this background <http://www.fsr.technology/about-collaborators/>.

IFIP to present to 22nd Session of UN Commission on Science, Technology and Development on AI & Ethics”

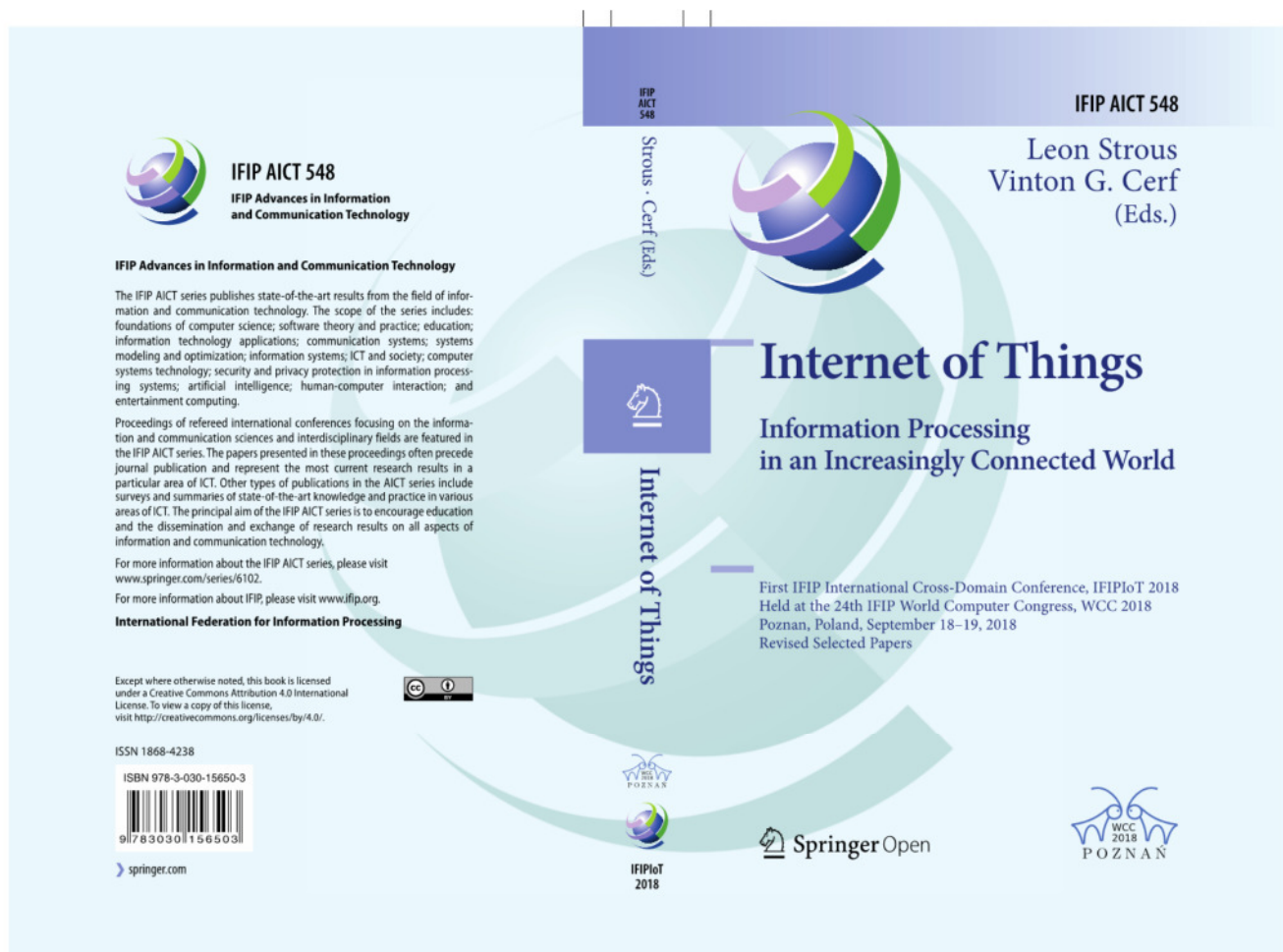
In response to the call at the recent WCC in Poznan, Poland, from Shamika N. Sirimanne, the Director of the Division on Technology and Logistics at UNCTAD, for collaboration between the United Nations Commission on Science and Technology for Development (CSTD) and IFIP, David KREPS, TC9 Chair has led in the preparation of a proposal to present to the CSTD for a research project to answer the priority themes for their 22nd Session in 2019. Working with Professor Robert DAVISON (Chair WG9.4), Professor Chrisanthi AVGEROU (former WG9.4 Chair and former TC9 Chair), Professor Yuko Murayama (Chair IFIP Domain Committee on IT Disaster Risk and Recovery), and Kai KIMPPA, (TC9 Vice Chair and SIG 9.2.2 Vice Chair), David has prepared a draft briefing document on a potential project.

The current status of this bidding activity is that Professor Mike HINCHEY (IFIP President), Emeritus Professor Don GOTTERBARN (ACM Representative on TC9, Chair SIG 9.2.2) Professor Chrisanthi AVGEROU, and David KREPS will present to the 22nd Session of the CSTD on the afternoon of 14th May 2019 in the Palais des Nations in Geneva, on the theme of AI & Ethics, in the development context. This will also be the opportunity for a brief introduction to the proposed project, and for further discussions.

New publication AICT 548 available full open access !!

Reflecting on the IFIP World Computer Congress 2018 and the first cross-domain conference on the Internet of Things it is a fantastic opportunity to have a post-conference book available online open access.

<https://link.springer.com/book/10.1007%2F978-3-030-15651-0>



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In addition to the refereed papers of the IoT conference, volume 548 in the IFIP AICT series includes two special contributions from the IoT conference and four contributions from plenary and special sessions of WCC 2018:

Responsible Data Science in a Dynamic World: The Four Essential Elements of Data Science (Wil van der Aalst)

How Three Poznan University Students Broke the German Enigma Code and Shortened World War Two (Roger Johnson)

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Professionalism and Frameworks (Moirá de Roche)

Should Artificial Intelligence Be More Regulated? Panel Discussion (Leon Strous)

The Internet of Things is Hardly About Technology (Kees van der Klauw)

IoT: Do We Have a Choice? Draft IFIP Position Paper (IFIP Domain Committee on IoT)

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“Mobile technology supported learning in Greek educational settings”

This is a brief report on mobile learning within the context of secondary education in Greece. Although the use of mobile devices/phones among secondary school students is increasingly more common, mobile learning research in formal education settings is still limited and this topic is not covered in the literature in the Greek context. Recent findings regarding students' perceptions revealed that 12-15 year old pupils reported positive attitudes and high self-efficacy in using mobile devices. Mobile phone was the predominant device which is used daily by almost all students (ages 12-18 years old); 83% of the sample goes online via a mobile device several times per day. Also, 75% of teachers expressed willingness to integrate mobile devices in the learning process, if the law allows it. The official legislative framework (June 2018) states that within the school environment, students may not own mobile phones or any other electronic device/game that has a system of processing image and sound; the equivalent equipment available at school, is used during the teaching and learning process only under the teacher's supervision; teachers, apart from the available -school owned- electronic devices (computers, laptops, tablets, interactive boards, etc.) can also use their own personal electronic equipment during the lesson, in the context of the educational process in general, in accordance with the safety rules (protection of personal data of pupils and teachers). The integration of mobile devices in Greek schools is negatively affected by the current legislative framework, but a few teachers take initiatives and allow their students to use mobile devices/phones in classrooms for educational purposes. I am scientific responsible for the project “Mobile technology supported learning in Greek educational settings”, which is in progress. I welcome the readers' suggestions for the topic.

Kleopatra Nikolopoulou (member of IFIP_WG3.3)

University of Athens, Greece (knikolop@ecd.uoa.gr)

IICTAC/CARI Summer School 12-19 October 2018, in Stellenbosch, South Africa

FIP DEC generously supported the 15th International Colloquium on Theoretical Aspects of Computing (ICTAC 2018, <https://www.ictac.org.za/>), the 14th African Conference on Research in Computer Science and Applied Mathematics (CARI 2018, <http://www.cari-info.org/>), and the ICTAC/CARI Summer School, which took place 12-19 October 2018, in Stellenbosch, South Africa. Additionally, the conference hosted three different half- and full-day workshops. Specifically, support from IFIP DEC allowed us to invite Prof Gennaro Parlato (U Southampton, UK, <http://www.southampton.ac.uk/~gp1y10/>), who presented a key-note on finding rare concurrent programming bugs, and to support two student volunteers from Stellenbosch University.

Both conferences, as well as the Summer School, were very successful. They took place at the Stellenbosch Institute for Advanced Study (Stias), which provided a very conducive environment. The conference also had a social program, including an excursion to the Cape of Good Hope, and a conference dinner at local restaurant.

CARI received more than 100 submissions, mostly from African authors, of which 28 were accepted. CARI was organized into five thematic tracks (Numerical Sciences for Biology and Complex Systems, Formal Methods for Computing Systems, Images, Signals, Networks, and Large-Scale Systems, Scientific Computation and Parallelism, and Knowledge Discovery and AI), each with its own specialized PC that organized reviewing and discussions of their track's submissions. Overall, 100 reviewers from African and world-wide institutions were involved in the reviewing process. The CARI proceedings are freely available at <https://hal.inria.fr/hal-01881376/document>; a special issue of the ARIMA Journal (<https://arima.episciences.org/>) dedicated to this conference is currently in preparation. CARI attracted 40 participants from African and European institutions and universities, including 12 students from African universities outside South Africa.



ICTAC received 59 full submissions with authors from 30 countries; a PC (skillfully chaired by Tarmo Uustalu, Tallinn University of Technology, Estonia, and Reykjavik University, Iceland) of 28 members from 19 countries representing all parts of the world carefully reviewed these, and accepted 25 submissions of very high quality. The conference proceedings, which also include extended abstracts of the invited talks, were published by Springer as volume 11187 (<https://dblp.org/db/conf/ictac/ictac2018.html>) of the LNCS series. A special issue of the journal Theoretical Computer Science

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(<https://www.journals.elsevier.com/theoretical-computer-science>) dedicated to this conference is currently in preparation, which will be published late 2019 or early 2020. The conference itself attracted approximately 50 participants (not counting the attendees of the summer school, although there was obviously substantial overlap) from Europe, Africa, Asia, and (North and South) America. ICTAC was organized by Tarmo Uustalu as PC Chair and Bernd Fischer (Stellenbosch University, South Africa) as General Chair..

This Summer School comprised seven tutorials over the first four days covering both advanced and basic topics. Presentations were given by Yves Bertot (INRIA Sophia Antipolis, France) on Interactive Theorem Proving and Program Development, Vincent Cheval (INRIA Nancy, France) on Verification of Security Protocols. Peter Thiemann (Universität Freiburg, Germany) on Derivation beyond Regular Languages, Martin Leucker (Universität zu Lübeck, Germany) on Runtime Verification, Thomas Meyer (University of Cape Town, South Africa) on Description Logics, Willem Visser (Stellenbosch University, South Africa) on Symbolic Execution for Java, and Ina Schaefer (Technische Universität Braunschweig, Germany) and Loek Cleophas (Technische Universiteit Eindhoven, The Netherlands) on the Correctness-by-Construction Approach to Programming. More details about the tutorials are available at <https://www.ictac.org.za/tutorials.html>.

The presentations and conference talks were well prepared and well attended, and generated lots of interest and discussions. Some pictures of ICTAC and the full-day excursion to the Cape of Good Hope and the Cape Winelands are available via <http://homes.ioc.ee/gallery3/index.php/konv/ictac18>; more pictures of CARI are currently available at

10th Latin America Networking Conference (LANC 2018) 3-4 October 2018, in São Paulo, Brazil

The 10th Latin America Networking Conference (LANC 2018), took place on 3-4 October 2018, in São Paulo, Brazil, running as satellite event of CLEI 2018, the Latin American Conference in Informatics (which took place on 1-5 October 2018 in the same city). As it has been the case in the last editions, LANC was organized by CLEI (Centro Latinoamericano de Informática), with the sponsorship of IFIP TC6 and in cooperation with ACM SIGCOMM.

The organizing team of LANC included Technical Program Committee co-chairs Leandro Villas (University of Campinas, Br) and Julião Braga (Mackenzie Presbyterian University, Br), Steering Committee members Ana Pont (U. Politécnica Valencia, ES), David R. Oran (CISCO, US), Eduardo Cerqueira (Federal University of Pará, BR), Eduardo Grampín (U. de la República, UY) Ernst L. Leiss (U. of Houston, US), Hector Cancela (U. de la República, UY), Ramón Cáceres (AT&T Labs, US), and Rodrigo Santos (U. Nacional del Sur, AR), and General Chair Denis Rosário (Federal University of Para – BR). The LANC 2018 webpage <https://lanc2018.ic.unicamp.br/> includes the full list of members of the Organizing Committee and Program Committee.

The rest of this report includes some relevant facts about the conference, reviews the funding received, presents some conclusions and discusses the future of the conference.

Important Points Regarding LANC 2018

1. *The LANC 2018 program committee received 32 submissions, coming from more than 6 different countries. Of these, it was accepted 16 as regular papers and 6 as short papers.*
2. All papers were presented by their authors at the LANC 2018. Thus 100% of all accepted papers at LANC 2005, at LANC 2007, at LANC 2009, at LANC 2011, at LANC 2012, at LANC 2014, and at LANC 2016 were presented.
3. There were two invited plenary talks. The speakers were Marília Curado (University of Coimbra,

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PT) and Torsten Braun (University of Bern, SW).

4. The attendance peak was about 30 people, the average one about 15. The keynotes gave their talks for the entire CLEI and not only for LANC. Thus, the audience was over 100 people.
5. Publication of accepted papers has been arranged in the ACM Digital Library.

Funding for LANC 2018

ACM SIGCOMM provided the publication of the accepted papers in ACM's Digital Library.

IFIP provided funds to cover the air tickets for the keynote (Torsten Braun), and also supported hotel and other expenses from the keynotes.

CLEI provided partial support for the invited speakers, as well as taking care of all direct organization costs (rooms, coffee-break, etc.).

FAPESP provided funds to cover the air tickets for one keynote (Marilia Curado).

Implications

The format adopted for LANC 2018 was the same as the previous LANC edition, co-location with CLEI. It is obvious that this format was again very successful in attracting large audiences and giving networking research wide visibility. In the adopted format, LANC was one of several events offered under the umbrella of the annual CLEI conference.

In this way, the organizers of CLEI 2018 assumed all administrative and organizational responsibilities, while the academic responsibilities, including in particular the selection of the papers, remained with LANC. It is especially important to note that LANC ran no financial risk of any kind since registration and provision of facilities was in the hands of the organizers of CLEI. Furthermore, the presence of many attendees of other CLEI events, together with the policy of having a single inscription fee whose payment permitted attendance at all CLEI events, gave LANC 2018 again a large audience.

Thus, the format benefits both CLEI and LANC. On the one hand, LANC covers the specific subject of networking that otherwise is not so well represented in CLEI which concentrates more on computer science. In this way, LANC supplies a broader vision of current advances in computing and communications technology. On the other hand, LANC benefits from the significantly larger audience present at CLEI, which contributes to spreading widely the concepts of networking in Latin America, one of the main goals of LANC. Finally, the joint format permits richer and more diverse offerings in tutorials and plenary talks.

The future of LANC: LANC 2020

The success of LANC 2018 was reviewed by CLEI, and it was decided to organize LANC 2020 (the next LANC; recall LANC occurs every two years under the current model) using the same format as for LANC 2005, 2007, 2009, 2011, 2012, 2014, 2016, and 2018. LANC 2020 will take place in Ecuador, at a date to be determined (likely September or October). The organization of LANC 2018 will be determined in the next few months; in particular, the General Chair, the chair(s) of the Program Committee, and the Steering Committee will be determined in the near future.

WISE12

The 12th World Conference on Information Security Education 25th to 27th June, 2019

Hosted by IFIP TC11 WG 11.8 (Information Security Education) In conjunction with the 34th IFIP TC-11 SEC 2019 International Conference on Information Security and Privacy Protection Lisbon, Portugal

The **IFIP Working Group 11.8 - Information Security Education** will hold the twelfth World Conference on Information Security Education (WISE12) in order to advance the state of computer security and information assurance education throughout the world. To that end, we invite practitioners, researchers, policy makers, and others from academia, industry, and government to submit papers for presentation and topics for working group discussions to WISE12. We will organize the conference around paper presentations and potential working group topics. All presentations and discussions will be in English.

WISE12 will be held in conjunction with the 34th IFIP TC-11 SEC 2019 International Conference on Information Security and Privacy Protection. See the IFIP WG11.8 web site <https://www.ifiptc11.org/wg118> for more information about WISE12 and the 34th IFIP SEC2019 web site <https://www.ifipsec.org/2019/> for more information about IFIP SEC2019.

The theme for WISE12 is "Education in Proactive Information Security". We solicit submissions on all relevant topics including, but not limited to:

- Emerging Trends and Holistic Approaches in Information Security
- Cyber Ethics, Cyber Security Education and Training the Cyber warrior
- Education of Information Security Professionals
- Education in Computer Forensics and the Law
- Education in Security-Related Data Mining
- Education in Secure Wireless Communications
- Education in Critical Information Infrastructure Security
- Penetration Testing Education
- Education in Secure e-Banking and e-Commerce
- Education in the Internet of Things Security
- Education in Financial and Economic Security
- New Programs in Security and Privacy Education
- Experimental Information Security Education and Training
- Information Security Curricula Guidelines
- Evaluation of Security Programs
- International Standards of Security Education and Assessment
- Security Certification Programs
- Professional Competencies in Security
- Informing Citizens in Information Security and Programs to Raise Information Security Awareness
- Information Security Education in Non-Academic Contexts
- Information Security Laboratories
- E-Learning for the Listed Areas of Security Education

Conference Secretariat:

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Paris - June the 4th, 2019 - Workshop “Learning Computational Thinking from Kindergarten to University: Experience reports and scalability”

Context and aims of the workshop

This workshop on Computer Science Education is a follow-up of previous issues in the French community ([Orphée RDV](#), [EIAH 2017](#), [RJC-EIAH 2018](#)).

For the first time, this workshop will be co-organized with the ANR projet [IE CARE](#) (Informatics at school, 3-16 years) and [IFIP TC3 - ICT and Education \(WG 3.1\)](#).

The main objective of this workshop series is to gather a community interested in teaching / learning Computational Thinking (CT) and coding skills from kindergarten to university to share views and achieve a common understanding of Issues, challenges and ways forward.

There is a massive introduction to CT and coding in schools in France (from primary to high school levels), and one can witness similar moves at varying degrees in Switzerland, Belgium... Other countries have already deployed this kind of subject at large, like [UK](#) or Italy.

We would like to take the opportunity of this joint organization, to share views and concerns about teaching CT and coding at scale, through experience feedbacks and reports of the participants.

We particularly welcome contributions about the implementation of this subjects in classes and their assessment as well as teacher training and coaching / scaffolding.

We will take the opportunity of the workshop to initiate the writing of a synthesis article based on the contributions for submission to STICEF (French speaking journal) and / or Education and Information Technologies Journal.

The contributions could address the following issues:

- Teaching / learning Computational Thinking and programming.
- Teacher training and coaching / scaffolding.
- Production, evaluation and diffusion of tools and educative resources.

Submissions

Submissions should be 4 to 8 pages long in PDF following the [LNCS format](#). The article will go through a double review by the scientific committee. Articles can be submitted in French or English. Accepted papers can also be presented in both languages. The proposals shall be sent to ct2@univ-lille.fr. This Call for Papers is also available here : https://wikis.univ-lille1.fr/computational-teaching/wiki/actions/2019/eiah19_en/home

Participation to the workshop implies a registration, French speaking participants are also very welcome to register to the [EIAH conference](#).

Contact:

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IFIP TC3 member, French representative

Some of forthcoming IFIP events. For a full list of events, please look at <http://www.ifip.org>

IFIP/IEEE International Symposium on Integrated Network Management (IM) http://im2019.ieee-im.org/	IM 2019	08/04-12/04 2019 Washington, US	IFIP WG6.6 / IFIP TC6
2019 Wireless Days http://wirelessdays2019.net/	WD	24/04-26/04 2019 Manchester, GB	IEEE Communications Society
Sustainable ICT, Education and Learning 2019 http://www.suza2019.org	SUZA2019	25/04-27/04 2019 Zanzibar, TZ	Tampere University / IFIP TC3
IFIP International Conference on Emerging Wireless Communications and Networking http://ewcn-2014.lri.fr	EWCN	28/04-29/04 2019 Erbil, IQ	IFIP WG6.8 / IFIP TC6
The 15th International Conference on Social Implications of Computers in Developing Countries http://www.ifipwg94.org/new/	IFIP WG 9.4 2019	01/05-03/05 2019 Dar es Salaam, TZ	University of Oslo, Norway
Fundamentals of Software Engineering http://fsen.ir/2019	FSEN 2019	01/05-03/05 2019 Tehran, IR	IFIP WG2.2 / IFIP TC2
International Symposium on Environmental Software Systems 2019 http://www.isess.net	ISESS 2019	07/05-09/05 2019 Southampton, GB	Wageningen University
Doctoral Conference on Computing, Electrical and Industrial Systems http://sites.uninova.pt/doceis	DoCEIS`19	08/05-10/05 2019 Caparica (Lisbon), PT	SOCOLNET - Society of Collaborative Networks (Main Sponsor), IFIP WG5.5
23rd International Optical Network Design and Modelling Conference http://www.ondm2019.com/	ONDM	13/05-16/05 2019 Athens, GR	IFIP WG6.10 / IFIP TC6
IFIP Networking 2019 https://networking.ifip.org/	NETWORKING 2019	20/05-22/05 2019 Warsaw, PL	IFIP TC6
15th Artificial Intelligence Applications and Innovations 2019 http://easyconferences.eu/aiai2019/	15th AIAI 2019	24/05-26/05 2019 Kos island, GR	IFIP WG12.5
The 17th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks http://www.wi-opt.org	WiOpt 2019	27/05-31/05 2019 Avignon, FR	IEEE Control Systems Society, IEEE Information Theory Society
Annual Privacy Forum 2019 http://privacyforum.eu/	APF	13/06-14/06 2019 Rome, IT	DG CONNECT, University of Rome Tor Vergata and LUISS University
The 17th International Conference on Wired/Wireless Internet Communications http://wwic2019.nws.cs.unibo.it	WWIC 2019	17/06-19/06 2019 Bologna, IT	University of Lorraine / Karlstad University / National Research Council of Italy
International Federated Conference on Distributed Computing Techniques http://www.discotec.org/2019	DisCoTec	18/06-21/06 2019 Kongens Lyngby, DK	IFIP WG6.1 / IFIP TC6

Some of forthcoming IFIP events. For a full list of events, please look at <http://www.ifip.org>

Network Traffic Measurement and Analysis Conference 2019 http://tma.ifip.org/2019/	TMA 2019	19/06-21/06 2019 Paris, FR	IEEE (ComSoc Technical Sponsorship) / ACM SIGCOMM
ICT Unbounded: Social Impact of Bright ICT Adoption https://www.ifipnews.org/ifip-wg-8-6-working-conference-portsmouth-june-2018/	IFIPUG2019	20/06-21/06 2019 Accra, GH	IFIP WG8.6 / Kwame Nkrumah University of Science and Technology
International Conference on New Technologies, Mobility and Security http://www.ntms-conf.org/ntms2019/	NTMS	24/06-26/06 2019 CANARY ISLANDS, ES	CNRS France / LIP6, EFREI Paris
25th International Workshop on Cellular Automata and Discrete Complex Systems https://automata2019.wordpress.com/	AUTOMATA 2019	26/06-28/06 2019 Guadalajara, MX	IFIP WG1.5 / IFIP TC1
12th International Conference on Graph Transformation https://sites.google.com/site/icgt2019/	ICGT 2019	15/07-19/07 2019 Eindhoven, NL	EATCS
21st IFIP WG 1.02 International Conference on Descriptive Complexity of Formal Systems http://im.saske.sk/dcfs2019/	DCFS 2019	17/07-19/07 2019 Kosice, SK	Slovak Society for Computer Science / VSL Software, a.s / Kosice City / Scientific Grant Agency VEGA
Asian Pacific Conference of Prognostics and Health Management 2019 http://www.phmap.cn/	PHMAP19	21/07-25/07 2019 Beijing, CN	China Academy of Information and Communications Technology / China Academy of Engineering / China Academy of Science / NSF I/UCRC Center for Intelligent Maintenance System / Korean Society for Prognostics and Health Management / China mechanical engineering
32nd Symposium on Integrated Circuits and Systems Design http://www.psi.poli.usp.br/	SBCCI 2019	26/08-30/08 2019 Sao Paulo, BR	IEEE, ACM, Sociedade Brasileira de Computação (SBC) / Sociedade Brasileira de Microeletrônica
9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019 http://www.mim2019.com	MIM 2019	28/08-30/08 2019 Berlin, DE	IFIP WG5.7 / IFIP TC5
Advances in Production Management Systems https://www.apms-conference.org	APMS	01/09-05/09 2019 Austin, US	IFIP WG5.7 / IFIP TC5

Some of forthcoming IFIP events. For a full list of events, please look at <http://www.ifip.org>

IFIP TC.13 International Conference on Human-Computer Interaction https://interact2019.org/	INTERACT 2019	02/09-06/09 2019 Paphos, CY	IFIP TC13
EGOV2019 – Joint conference EGOV-CeDEM-EPART 2019 http://dgsoc.org/egov-2019/	EGOV2019	02/09-05/09 2019 San Benedetto Del Tronto, IT	IFIP WG8.5 / IFIP TC8
12th IFIP Wireless and Mobile Networking Conference http://wmnc.dnac.org	WMNC	11/09-13/09 2019 Paris, FR	IFIP / IEEE ComSoc
I3E 2019, e-Business, e-Services, e-Society http://i3e2019.com	I3E	18/09-20/09 2019 Trondheim, NO	IFIP WG6.11 / IFIP TC6
20th IFIP/Socolnet Working Conference on Virtual Enterprises http://www.pro-ve.org	PRO-VE 2019	23/09-25/09 2019 Turin, IT	IFIP / SOCOLNET - Society of Collaborative Networks
2019 IFIP WG 8.11/11.13 Dewald Roode Information Security Workshop https://ifip.byu.edu/	DRW	04/10-05/10 2019 Bossier City, LA, US	IFIP WG8.11 / IFIP TC8
4th IFIP Conference on Information Technology in Disaster Risk Reduction http://itdrr.unwe.bg/	ITDrr-2019	09/10-10/10 2019 Kyiv, UA	IFIP TC5
TRIZ Future 2019 http://tfc19.ma/	TFC2019	09/10-11/10 2019 Marrakech, MA	IFIP WG5.4
The 31st IFIP International Conference on Testing Software and Systems http://ictss2019.centralesupelec.fr	IFIP-ICTSS 2019	15/10-17/10 2019 Paris, FR	IFIP / CentraleSupélec
International Conference on Intelligent Agriculture http://www.iccta.cn	ICIA	18/10-21/10 2019 Beijing, CN	IFIP WG5.14 / IFIP TC5
15th International Conference on Network and Service Management http://www.cnsm-conf.org/2019/	CNSM 2019	21/10-25/10 2019 Halifax, CA	IFIP / IEEE ComSoc / IEEE CS
Second IFIP International Cross-Domain Internet of Things Conference http://ifip-iotconference.org/2019	IFIP IoT 2019	31/10-01/11 2019 Tampa, Florida, US	IFIP DC on IoT
IFIP International Conference on Entertainment Computation http://cs.ucsp.edu.pe/icec2019/	ICEC	11/11-15/11 2019 Arequipa, PE	Sociedad Peruana de Computacion
8th International Conference on Performance Evaluation and Modeling in Wired and Wireless Networks https://sites.google.com/view/pemwn2019/	PEMWN 2019	26/11-28/11 2019 Paris, FR	ENSI, Tunisia / Inria, France

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