

News

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International Federation for Information Processing

June 2021 http://www.ifip.org

IFIP celebrates #ifip60 showcasing Member Societies and Committees

The IFIP 60th Anniversary is a cause for celebration, featuring and showcasing the contributions and diversity of works of IFIP, Member Societies, our many Technical Committees and Working Groups, IP3, YIT and other committees to governments, industries, international bodies (including UNESCO, ITU, UN), and to the "World At Large". IFIP was established under the auspices of UNESCO and holds consultative status with UNESCO.

The IFIP 60th Events Coordination Committee ("#ifip60 Committee") was created and appointed in Feb 19, 2021. Following the formation of the #ifip60 Committee, it has met nine times since March, to co-ordinate a growing number of #ifip60 events and activities. The committee, chaired by IFIP Vice President Anthony Wong, comprises Leon Strous (IFIP Past President), Philippe Palanque, (TA Chair), Vicki Hanson, (ACM CEO, ACM Past President), Erich Neuhold, (MSA Chair), Jacques Sakarovitch, (French representative), and Michael Grant (BCS Past President) and Alastair Irons (BCS representative) standing in for BCS President John Higgins, and supported by the IFIP Secretariat, Eduard Dundler.

In May, IFIP announced a call for proposals for 10 virtual events to debate and discuss issues at the intersection of technology and the information society, aligning with the concept and selection criteria in: https://nextcloud.gi.de/s/TxoAeXB7et9FjRY. The "IFIP 60th Anniversary Future of Information Processing Series" which form part of the #ifip60 celebrations of events around the world will be free and open to the public. The events will take place between August and December 2021.

At its recent meeting in June, the #ifip60 Committee reviewed the expressions of interest and short-listed ten virtual events. The upcoming "**IFIP Future of Information Processing Series**" include:

No	Future of Information Processing Series	Event Date
1	The Silent Revolution: Software as the Technological Fabric of Society	30.08.21
2	Digital Twin for Cyber-Physical Production Systems	13.09.21
3	Strategic Collaboration of Certification and Education on Data Science	27.09.21
4	IFIP Code of Ethics and Professional Conduct: A Document for its Time	04.10.21
5	Decision Making for a Sustainable Global Society	11.10.21
6	Autonomous Vehicle Safety and Security: An Information Processing Imperative	18.10.21
7	Trends on Computing Systems	25.10.21
8	Future Trends in Databases: from Data Science through Artificial Intelligence to Quantum Computing	22.11.21
9	Cybersecurity Skills	29.11.21
10	IFIP TC3 Zanzibar Declaration: The Outcomes	06.12.21

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A Big Thank you to the organisers of the proposals for their expressions of interest and for their participation.

The German Informatics Society (GI) have been appointed to co-ordinate and to assist IFIP with #ifip60. Working with the #ifip60 Committee, the international team at GI has prepared an #ifip60 engagement and communications campaign. To celebrate, we are highlighting the activities of participating Member Societies and IFIP committees-launching #ifip60, a social media campaign promoting events and activities of IFIP and its Member Societies.

IFIP will equip participating IFIP stakeholders with a <u>communications toolkit</u> to assist with branding and marketing, including the #ifip60 logo, graphics for social media, communications and style guides.

To reach and connect with the largest world audience possible, IFIP has started working collaboratively with #ifip60 participating member societies and the IFIP communities. On 17 June, about 20 participants representing various IFIP member societies and committees took part in the inaugural #ifip60 Communicators Workshop organised for "communicators", to share and utilise #ifip60 resources, to create effective press materials and social media posts, and to grow our online presence. As a result of the successful workshop, a LinkedIn Group has been created to collaborate and share information in relation to #ifip60.

Participation in #ifip60 continues to grow and at the time of writing, fourteen Member Societies and Committees have contributed and committed to participate in #ifip60 under the **IFIP** (**Jubilee**) **Events** category with a further fifteen events in planning:

Day	Month	Organized by	Location	Description	Website
13	April	IFIP IP3	Virtual	During the WSIS Forum 2021 (organized by UN bodies) Cybersecurity track: Building Cyber Resilience with a Professional workforce	https://itu.zoom.u s/rec/share/COeZ gdpK3_KJKUouzjR UA47CEJXNiOwxR v4iNL29xElmNkw AzQkgfUuOlbHjL6S j.XgiUWwGh1t- hCkno
23	June	IFIP TC- 11	Virtual / Oslo	36th International Conference on ICT Systems Security and Privacy Protection, IFIP SEC 2021 Panel session IFIP 60 years Bill Caelli, Yuko Murayama, Basie von Solms, Leon Strous, Louise Yngström, Chair: Steven Furnell Panel session IFIP and National Computer Societies David Cook, Jee-In Kim, John Higgins, Liesbeth Ruoff, Terje Wold, Tony Parry, Chair: Moira de Roche	www.ifipsec.org/2 021/program.html
24	June	BCS (UK)	Virtual	BCS Insights 2021 Defining good, doing good. Annual conference welcomes tech leaders and professionals, futurologists, influencers and innovators to discuss the way we use technology today and explore how we create a bright digital future for everyone in society.	www.bcs.org/even ts-home/bcs- insights/
23 - 25	June	KIISE (South Korea)	Hybrid Jeju Is- land	Annual conference, Korea Computer Congress (KCC) 2021, at Jeju Island. IFIP is the co-host of KCC 2021. The theme of the KCC 2021 is "Unimagined Futures: Healing and Recovery with K-SW".	https://www.kiise. or.kr/conference/ kcc/2021/
18 - 23	July	SBC (Brazil)	Virtual	The IFIP's 60th Anniversary session during CSBC 2021 is scheduled for July the 20th, 2021,12:00-13:15 (local time: GMT-3) Title: a global framework for the socially responsible development and application of information and communication technologies. The main theme of CSBC 2021 is "Innovation and Digital Transformation: Facing the Complexity and	https://csbc.ufsc. br/

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Day	Month	Organized by	Location	Description	Website
31	Aug	Computer Society of Sri Lanka (CSSL)	Virtual	CSSL Policy Dialogue on Digital Safety and Hygiene is an initiative under CSSL CONTRIBUTE pillar of 2021 strategic plan. This event is organised as a member event to mark and celebrate #ifip60 and Invitees from IFIP will resource persons of the panel.	
27 - 1	Sept. / Oct.	German Informat- ics Society (GI)		51st annual conference; Informatik 2021 As a first event from Germany within the IFIP jubilee year we aligned our annual conference and integrated the logo: Mike Hinchey and Gabriele Kotsis will hold welcome addresses and the crucial parts will be held in English and therefore be interesting for the IFIP community (and beyond).	https://informatik2 021.gi.de/en/ https://informatik2 021.gi.de/en/infor matik- 2021/speakers
28	Sept.	IFIP	Virtual	IFIP Virtual jubilee event – on the day declared by the UN as the (annual) International Day for Universal Access to Information (IDUAI)	
29	Sept.	Western Sydney University and ACS TC12 (Australia)		Frontier Technologies for Sustainable Development: Opportunities and Challenges	
12	Oct	Computer Society of Sri Lanka (CSSL)		CSSL CEO Conclave is a new addition to CSSL's flag- ship event at the 39 th National Information Technology Conference (NITC). It is a CEO breakfast meeting. This event is organised as a member event to mark and celebrate #ifip60 and Panellists will include in- vitees from IFIP	
18 - 19	Oct.	Swedish Computer Society (Sweden)	Stock- holm	ITARC 2021	<u>dfs.se</u>
25- 27	Oct.	IPSJ (Japan)		6th IFIP Conference on Information Technology in Disaster Risk Reduction ITDRR-2021 provides an international forum for researchers and practitioners to present their latest R&D findings and innovations. The conference is especially focused on the various IT aspects and challenges of coping with disaster risk reduction.	https://www.itdrr- 2021.com/
2	Nov.	IFIP IP3 and IT Profes- sionalism Europe (ITPE)		Never waste a good crisis: building a trustworthy digital infrastructure: www.ipthree.org and www.itprofessionalism.org	
4 - 5	Nov.	IFIP Do- main Commit- tee IoT	Amster- dam / hybrid	4th IFIP International Internet of Things (IOT) Conference	http://ifip- iotconference.org/

IFIP (Jubilee) Events are events of any duration or format which are (co-)organized by IFIP, IFIP Member Societies, IFIP Technical Committees, Working Groups and other Committees including IP3, YIT and Domain Committees. These events, to be included in #ifip60 and promoted by IFIP, should be co-branded with IFIP- meaning at minimum the #ifip60 logo should appear on the event website and any materials shared on social media.

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The initial #ifip60 events have occurred – a panel discussion on "Building Cyber Resilience with a Professional Workforce", staged by IFIP IP3 as part of the WSIS 2021 Forum was followed in June by the IFIP SEC 2021 Conference, BCS Insights 2021 in the UK and KCC 2021, "Unimagined Futures: Healing and Recovery with K-SW" in South Korea.

We acknowledge and thank the #ifip60 Committee and the GI International Team for their dedicated commitments, for their drive in getting the #ifip60 campaign moving in such a tight timeframe.

We invite and encourage all IFIP stakeholders to participate, engage, host and organize IFIP jubilee events in 2021. To contribute and participate in #ifip60, please contact Anthony Wong, Chair of #ifip60 Committee at anthony.wong@acs.org.au or Kristina Hatas, Junior Manager International Relations at GI kristina.hatas@gi.de.

Stay tuned for more information as additional details become available.

ACM and IEEE-CS Release Computing Curricula 2020

ACM and the IEEE Computer Society have issued Computing Curricula 2020 (CC2020): Paradigms for Global Computing Education. Developed by a 50-member task force drawn from 20 countries, CC2020 outlines international recommendations for baccalaureate degrees in computing.

Designed to be comprehensive, CC2020 delineates the latest curricula for computing disciplines including computer engineering, computer science, information systems, information technology, and software engineering. CC2020 builds upon a CC2005 report by including new disciplines such as cybersecurity and data science, as well as other significant "add-ons" to reflect the changing dynamics of computing, computing education research, and the work-place. T

These additions include:

- Transitioning from knowledge-based learning to competency-based learning
- Expanding curricular and competency diagrams and visualizations
- Establishing an interactive website that will bring CC2020 results to public use
- Charting a framework for future curricular activities

CC2020 also contains special features geared toward making the report accessible to a broad audience. For example, the report includes visualization tools and diagrams that show the similarities and differences between two computing disciplines for prospective students, as well as other visuals that provide a broad set of perspectives on the computing discipline. In addition, the CC2020 Task Force hopes that an accompanying interactive website will foster a useful exchange of ideas that will benefit stakeholders throughout the world.

Computing Curricula 2020 has been endorsed by IFIP

see: https://www.acm.org/media-center/2021/march/computing-curricula-2020

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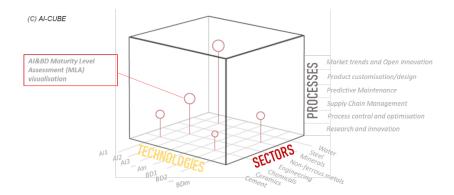
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Al-CUBE (Artificial Intelligence and Big Data CSA for Process Industry Users, Business Development and Exploitation) is a project funded in 2020 under the European Union's Horizon 2020 Research and Innovation Programme. The initiative aims to enhance the understanding of Artificial Intelligence (AI) and Big Data (BD) technologies application in the process industries for SPIRE industrial sectors: cement, ceramics, chemicals, engineering, minerals and ores, non-ferrous metals, steel, water, pulp and paper, refineries. The project is a collaboration between CiaoTech s.r.l.-PNO Group, Zaragoza Logistics Center, IRIS, Fraunhofer –IML, CNR-IEIIT.

The project consortium analyzed the state of the art of digital technologies in the Process Industries from different points of view: it explored the research conducted on AI and BD technologies and run a sectoral analysis of the industrial processes in the SPIRE sectors.

These analyses led to the identification and mapping of sectors, processes, and technologies, representing the dimensions and macro-areas that will guide the AI-CUBE project through its next phases. The key result of these activities has resulted in an updated CUBE design, represented in the following figure:



With the CUBE design in mind, the consortium developed a customized Maturity Level Assessment (MLA) framework for Al/BD in the process industry, analyzing the interplay between each technology and each process. The Al-CUBE MLA framework is structured along 4 domains: strategy, governance, people, and technology, and was operationalized in a questionnaire that will collect the point of view of users and providers of Al/BD. These analyses will result in the comprehensive output of the Technological Maturity Level (TML), a metric based on the assessment of the application of digital technologies against different processes in different sectors, also considering the maturity in dealing with the ELSI (Ethical, Legal, Social Issues).

The survey will be shortly launched, visit the Al-CUBE project website to be always updated!

Remember to subscribe to the Al-CUBE <u>newsletter</u> and follow the main updates visiting the project <u>LinkedIn</u> and <u>Twitter</u> accounts!

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David O' Leary Award Call for Nominations

IFIP IP3 acknowledges 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 among ICT practitioners. An individual or organization can be nominated.

The criteria will include:

Professionalism – demonstrated commitment to all aspects of ICT professional practice:

Continuous Professional Development

Service to organisation and broader community

Trustworthiness

Accountability

Pride in the profession and setting a good example.

Ethics evangelism - in addition to ethical behaviour, takes every opportunity to spread the Ethics message.

Fosters diversity - works to promote gender, race, and digital equity.

The David O'Leary award includes a cash prize of USD1500, and travel to IFIPs General Assembly to receive the prize. The winner in 2019 was Mary Cleary – click <u>here</u> to find out more.

The award was not made in 2020 because the General Assembly took place as a virtual meeting due to COVID-19 travel restrictions. We have however decided to make the award in 2021 despite the General Assembly once again being virtual. The 2021 winner will receive the cash prize and be invited to travel to General Assembly 2022 (location not yet known), with expenses covered (subject to a limit).

You can find the nomination form <u>here</u>. Anyone may submit a nomination for a person or an organization. Supporting documents may be emailed to award@ipthree.org. The closing date for the 2021 Award is 15 August 2021. All information is confidential and will only be shared with prior permission.

CIPS Professional Scheme reaccredited by IP3

Canada's Association of Information Technology Professionals' (CIPS) ITCP Scheme was accredited against the IP3P standard. After reviewing the Accreditation Application, and holding virtual meetings as required, the IP3 board approved accreditation for a period of five years from 1 May 2021, as recommended by the Standards and Accreditation committee. The IP3 board thank CIPS for the effort expended in preparing for this successful accreditation, and the Assessors for conducting the virtual assessment "visit".

IFIP Member Society KNVI collaborates with the wider IFIP community

The Interest Group IT Law of the KNVI, the Dutch IFIP member society, has been publishing a series of "Multidisciplinary aspects of" books. So far, three topics have been taken covered: Blockchain, Al and COVID-19 apps. The books contain submissions from multiple authors on many aspects of the respective topics. The contributions are not scientific research based, but are aimed at board level readers, politicians, and information professionals in general. The first idea was to have only Dutch authors; members of KNVI. In the Al book an IFIP colleague appeared. The third book on the COVID-19 apps has six chapters (of 26 in total) written by IFIP colleagues from all over the world. One of the chapters in this book, written by David Kreps and Liesbeth Ruoff discusses whether an ethical code, like the IFIP one, can provide a helping hand in supporting the ICT professional to deliver the right quality and stay trusted as a professional. IP3 board members, Jee-In Kim (KIISE) and Anthony Wong have also written articles for inclusion. You can access this chapter here.

This kind of cooperation with experts from IFIP is perceived in the Netherlands as very fruitful and will be continued. A next book on "Multidisciplinary aspects of digital security" is already underway. While some chapters in the books are already in English, most of them were in Dutch. Many strategic and "what's in it for me" discussions have highlighted that member societies could share each other's products for the benefit of their own members. With that in mind, the Blockchain and Al books have already been translated into English, translation of the COVID-19 book is currently taking place. Details about the availability of the English (electronic) versions and links will be provided in the next newsletter.

IP3 and Member Society discussion at SEC2021

IP3 Chair Moira de Rocher 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)

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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.

All panellists are incredibly pleased about the IFIP Code of Ethics, and the vigorous promotion of the Code globally.

Panellists would like to see colloquiums such as this continue on a regular basis.

IFIP 60th Anniversary Webtalk event

This event titled "Strategic Collaboration of Certification and Education on Data Science" was proposed by IPSJ on behalf of IP3 and accepted by the IFIP60 Events' Committee. The event will be held on 27 September 2021 at 15:00 CEST.

The topics to be discussed are:

- Experience and thoughts on recent activities and developments in Data Science.
- Possible collaboration to effectively develop highly skilled Data Scientists.
- Explore possibilities to utilize digital technologies for mutual collaboration.

Session Overview

It is well acknowledged that Data Science is one of the key technologies to realize Society 5.0 and digital transformation. It is also acknowledged that development of highly skilled Data Scientists will enhance business innovation and to expand the labor market.

This session will introduce recent and relevant activities around the globe for the education and certification in the Data Science domain, and how they relate to each other. The audience will understand the relationship and difference of the activities.

The COVID-19 pandemic triggered digital transformation such as online education and telework. These digital technologies will also accelerate mutual collaboration. The speakers will explore the creation of an ecosystem to effectively develop various levels of Data Scientists.

Speakers

Tetsuro Kakeshita (IPSJ, Saga University)

Lillian Cassel (ACM Data Science Task force)

Yuri Demchenko (Edison Data Science Project)

Dr. Kewal Dhariwal (Institute of the Certification of Computing Professionals, ICCP)

Moderator: Moira de Roche (Chair IFIP IP3, PMIITPSA)

Please visit the IFIP60 Events Calendar to register for this important event.

Email editor@ipthree.org for more information about any IP3 news item.

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TC6 Chair Re-appointed

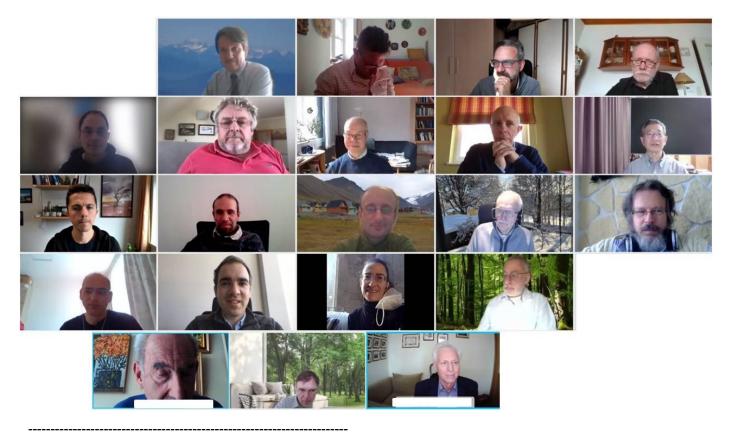
The Technical Committee 6 (TC6) on "Communications Systems" is one of the largest TCs within IFIP in terms of activities and revenues. TC6 currently has eight active Working Groups (WGs), the majority of which is concerned either with specific aspects of communications systems themselves or with the application of communications systems.

While COVID-19 impacts many aspects of life, the same holds obviously true for TC6. In 2020 the planned for IFIP TC6 meeting had to be cancelled as an on-site meeting (originally intended to be collocated with the TC6 flagship event, IFIP Networking 2020 in Paris, France), but was run finally in July fully on-line, for the first time ever. As it remained the only TC6 meeting that year, a number of special settings for TC6 supported events as well as IFIP events had to be taken care of via e-mail conversations and decisions.

Overall, the experiences collected by various conferences and workshops did not only show negative impacts, since for instance the IFIP/IEEE NOMS 2020 Symposium (planned for in April 2020 in Budapest, Hungary) and the IFIP Networking 2020 conference (planned for in June 2020 in Paris, France) had very many attendees, who joined multiple sessions from all over the world in a remote manner. Of course, the "human internetworking" did not exist anymore, but many technical messages were able to be delivered to a broad audience. Nevertheless, a "ground wave" indicated clearly the opinion of many to get back to physical, on-site meetings as soon as the pandemic situation will allow for that.

As 2021 still started in the COVID-19 mode, TC6 decided to run an early meeting, which was organized on March 29, 2021. Now seeing TC6 being almost "fully used" to on-line settings, a large number of TC6 members were able to join (see picture), and with a three hours time slot, a quite efficient agenda was handled.

Besides the regular business of budget planning, publication discussions, and administrative tasks, a new TC6 chair's election had been scheduled as well. Andrea Passarella, the outgoing WG6.3 chair after his second term - thank you -, did lead the preparations and discussions for the new TC6 chair. After a record time of five minutes, **Burkhard Stiller** was called back into the telco and proposed by acclamation to be the old and the new chair. And after Andrea informed the IFIP President Mike Hinchey on that decision taken in the afternoon, Mike appointed Burkhard for his second three years term that same afternoon.



Picture caption: Subset of TC6 Members at the March 29, 2021 TC6 Meeting

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18th International Product Lifecycle Management Conference PLM2021 11th - 14th July 2021

Curitiba - Brazil - Online Conference

Product Lifecycle Management: Green & Blue Technologies to support smart and sustainable organizations

From July 11th to 14th the **18th IFIP International Conference on Product Lifecycle Management** will take place as a virtual event, organized by Industrial and Systems Engineering Graduate Program at Pontifical Catholic University of Paraná (PPGEPS/PUCPR) in Brazil. The PLM International Conference connects various representatives of its community from research and industry who contribute to its state-of-the-art research questions investigation.

110+ research papers have been submitted in the wide filed of PLM will be presented along with our keynotes.

PLM SESSIONS

Innovation / Design | Models | Sustainability/Green & Blue economy | Industry 4.0 Manufacturing | Information technology & services | Education & management

SPECIAL SESSIONS

PLM Maturity, PLM implementation and Adoption within Industry 4.0 | Sustainability, Sustainable Development and Circular Economy | Al and Blockchain Integration with Enterprise Applications

CONFIRMED KEYNOTE SPEAKERS

Research Keynotes

Prof Dr Elias Hans Dener Ribeiro da Silva – University of Southern Denmark – Denmark

Prof Dr Maria Cecilia Villas Boas | Paulista University - Brazil

Prof Dr Robert I. M. Young | Loughborough University - United Kingdom

Prof Dr Rodrigo Lozano | University of Gävle – Sweden

Prof Dr Ubiratã Tortato | Pontifical Catholic University of Paraná – Brazil

Industrial Keynotes

Dr. Domingo Ureña | President M&M Group - AIRBUS - Spain

Prof Dr Luis Marcio Spinosa | Director of Science, Technology and Innovation - Araucaria Foundation for Scientific and Technological Development of Paraná – Brazil

Luiz Bohatch | Vice-president Power Train Production - Volvo Group Latin America - Brazil

M.Eng. Regis Ataides | Director South America Channel - Siemens Digital Industries - Brazil

Renato Grotolli |Coordinator of Maintenance Engineering Robert Bosch - Brazil

PUCPR Authorities

Prof Dr Andreia Malucelli | Dean of Polytechnic School

Prof Dr Paula Cristina Trevilatto | Pro-rector of Graduate, Research, and Innovation

18TH IFIP INTERNATIONAL CONFERENCE ON PRODUCT LIFECYCLE MANAGEMENT - PROCEEDINGS PUBLICATIONS

The conference this year will be supported by Springer Proceedings. See the last edition in the link below. https://link.springer.com/book/10.1007/978-3-030-62807-9

SUPPORTING JOURNALS FOR SPECIAL ISSUES

Selected best papers from the PLM conference will be considered for possible publication in the following high quality supporting journals (authors need to extend their paper before submission after the conference):

Journal of Industrial Information Integration (ISSN: 2452414X)

Journal of Intelligent Manufacturing (ISSN: 15728145)

International Journal of Product Lifecycle Management (ISSN: 17435129)

Journal of Agile Systems and Management (ISSN: 17419182

Cleaner Environmental Systems (ISSN: 26667894)

Journal of Modern Project Management (ISSN: 23173963)

Sustainable Organizations (ISSN: 26734542)

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PONTIFÍCIA UNIVERSIDADE CATÓLICA DO PARANÁ - PUCPR (ORGANIZER)

The Pontifical Catholic University of Paraná combines international campus with top-ranked undergraduate and graduate programs, and innovative research projects in partnership with international organizations and universities. PUCPR Research has been gaining relevant positions in the international research landscape, achieving with outstanding positions in rankings such as: 3rd place - Best Brazilian Private University - Times Higher Education – 2020; 1st place - Best Brazilian Private University - Society Impact – 2019; 5th place - Computer Science Research Guide to Research - 2020; 100 World Most Influence Researchers – 2020.

INDUSTRIAL AND SYSTEMS ENGINEERING GRADUATE PROGRAM - PPGEPS

The Industrial and Systems Engineering Graduate Program at PUCPR has the honor of host and organize the PLM 2021 in an online format. The PPGEPS counts with highly qualified 13 Lecturers/Professors (CNPq - Scholarship in Research) researchers are trained to work in undergraduate and postgraduate higher education.

Two main areas organize the research at PPGEPS: Production and Logistics Management and Automation & Control Systems. This processes for PUCPR research, development, and innovation in occurs with close collaboration with industry, research institutes, universities, higher education institutions, organizations in locally and globally. Additionally, the program offers two possibilities for a dual degree with the Loughborough University (UK) and University of Lorraine (FR) for its students.

CURITIBA - PARANÁ - BRAZIL

Curitiba is the capital of the Paraná state, has 1,8 million habitants and have been recognized as one of the country's smartest city in the last years. Curitiba is widely known for its leading universities and research quality. With a thriving industrial park, the city has national and multinational plants and contributes significantly to regional economic development.

CONFERENCE ORGANISATION

The conference is promoted by the International Federation for Information Processing (IFIP) Working Group 5.1 on Global Product Development for the whole Lifecycle (www.ifip-wg51.org).

Conference website: www.plm-conference.org

Conference email: plm2021@pucpr.br

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News from the SiF (Société informatique de France)

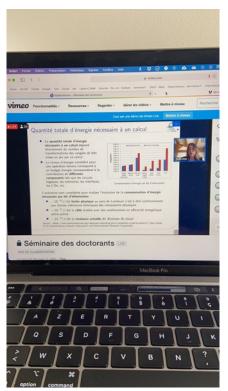
During this quarter, the SiF organised 3 major events for its members and open to a large community.



Reproducibility of research (https://www.societe-informatique-de-france.fr/journee-reproductibilite/) the slides are available and the videos of the exchanges will be available soon.



The **teaching of computer science in high schools** is being deployed in France. To support this deployment, the SiF is organising a day with all the actors of this ecosystem (high school teachers, university teachers, ministry officials). Information available on this link: https://www.societe-informatique-de-france.fr/mercredi-enseignement-de-la-sif-le-9-juin-en-virtuel/



The **semidoc' SiF** (https://sifdoctorants21.sciencesconf.org) took place in June. It brought together more than 100 PhD students on the theme of Green Computing. This seminar was organised BY and FOR PhD students. This seminar was also organised in partnership with the French digital economy initiative: Planet-Tech Care (https://www.planet-techcare.green). The slides are available and the videos of the exchanges will be available soon.

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15th IFIP TC9 Human Choice and Computers Conference

"Human Choice and Digital by Default: Autonomy vs Digital Determination"

Tokyo, Japan, 7th-9th September 2022

www.hcc15.net

Venue: Faculty of Global Informatics (iTL), Chuo University, Tokyo.

http://global.chuo-u.ac.jp/english/siteinfo/visit/ichigaya/

Since the advent of COVID-19, whole sectors of the economy in many countries, or at least those that can, have been working remotely, from home. brought a whole new meaning to the maxim 'digital by default' and brought home some of the potential pitfalls. Not only are we now missing the paralinguistic benefits of body language and location context in our communication, but the trend towards digital meetings - already strong - has accelerated, meaning fewer and fewer of us have any choice whether or not to embrace the digital alternative to in-person meetings. The encroaching influence, moreover, of machine learning based systems, that can embed the biases inherent in the data they have learnt from, threatens to entrench the societal problems of the past, rather than redress them, in this new online world. Issues of privacy, accountability, fairness and access are all coming more and more to the fore of dis-



cussions around the digital, with face-offs between the Tech Giants unfolding over their fundamental business models

Since 1974, the Human Choice and Computers (HCC) conference series has consistently fostered innovative thinking about the interfaces between society and technology. At this time, HCC15 in 2022 focuses on "Human Choice and Digital by Default: Autonomy vs Digital Determination" and welcomes inputs from members of academia and research, civic society, computing associations, industry, and the IT professions on the following (and related) themes:

- Ethical and Legal Issues for Data Analytics and Big Data
- Social Accountability and Responsibility for Computing and Data Utilization
- Digitalization, embodiment, mobility and repairment in relation to Gender and Diversity, Work, Educational and Daily Life
- How data can support rather than infringe personal liberty
- Harnessing Information with Unconscious Bias
- Legal Systems for Criminal Offences and Abuse
- Ethical governance models for new data economy ecosystems
- How did we get here? Precedents, and lessons from the past
- Personal Autonomy in Information Systems: where is the human in our models?
- How culturally diverse interpretations / understandings of life-work balance can help us shape a more human-centric computing environment
- Personal freedom and informational security
- Can our personal choices add up to an environmental impact?
- ICT for Development: how much choice outside the developed world?
- Global or local? How are the lived experiences of the marginalized and dispossessed citizens of developing countries affected by government reactions and policies?
- Security and privacy for Data Analytics and Big Data
- Using collaborative skills to work with team members in order to ensure reliability, availability and performance of applications

Working, playing, entertaining and relaxing at home: seamless integration in our working and private digital lives

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HCC15 will also welcome co-located TC9 Working Group Workshops:

WG9.2 - Social Accountability and Computing

Need for Social Accountability - Art Nouveau of digitalization?

Covid-19 forced interaction at work and private life to go digital so fast that it could not be seen beforehand. However, we can raise the question, is this a desirable outcome or not? By taking a digital leap, what did we achieve from the viewpoint of environment, equality and wellbeing? Is there a need for starting to see what good and beauty we could achieve using technology, instead of focusing on efficiency? What does social accountability mean while digitalization is progressing at a different pace in a different context? What would it mean from an organizational or societal perspective? Do we need a new *Art Nouveau* for digitalization to ensure the digital society is good for people and the environment?

The objective of *Art Nouveau* was to create beautiful yet sustainable things for people with arts and craftsmanship. One of the reasons for the birth of *Art Nouveau* was the resistance towards industrialization that offered cheap standardised products to everybody. *Digital Art Nouveau* could be the rise of human-centric digitalization, where other values than economy and efficiency could also flourish.

We encourage the submission of papers focusing on the following and related themes.

- Slow tech
- Artificial intelligence helping human intelligence
- Sustainability of digitalization

Human-centric digitalization

WG9.4 - The Implications of Information and Digital Technologies for Development

Digital Approaches to Development Issues during COVID-19: Global Perspectives

The COVID-19 pandemic has created a plethora of new needs, encompassing the domain of health infrastructures and those of emergency assistance, social protection and socio-economic development measures. Digital approaches have been largely leveraged in COVID-19 responses, creating solutions that cover all such domains: COVID-19 tracking has been delegated to digital systems that have raised advocacy, but also concerns of privacy and data governance related to mobile-based apps (Taylor et al., 2020). Emergency assistance and social protection have been linked to algorithmic approaches that have facilitated distribution of subsidies, but also raised concerns of algorithmic justice (Cerna Aragon, 2020; Lopez, 2020). More at large, digital routes to socio-economic development have been adapted in the ongoing pandemic, seeking to tailor digitality in ways that seek to meet the needs of the new poor and of those whose vulnerability has increased.

Against this backdrop, this track invites papers that deal with digital approaches to the solution of issues posed by the COVID-19 pandemic. We are especially interested in issues that pertain to the domain of socio-economic development, and their configurations at this time of global crisis. We invite submissions on topics that include, but are not limited to:

Digital health infrastructures in the pandemic COVID-19 tracking in developing countries Datafied social policies in the Global South Algorithmic justice in relation to emergency assistance Digital social protection during COVID-19 Digital inequalities in the COVID-19 context.

WG9.5 Our Digital Lives

Given the prevalence of connectivity and digital work in its various forms, we are interested in studies (including work-in-progress) exploring any aspect of 'Our Digital Lives' following our Working Group's general theme. Example topics include (but are not limited to):

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(Continued from page 13)

digital work in its social context digital health digital education digital labor digital games digital tourism online communities social media augmented or virtual reality emerging technologies artificial intelligence

Submissions are welcomed that offer fresh theoretical or empirical insights into how our digital lives have transformed the way we work, communicate, and play together.

WG9.8 Gender, Diversity and ICT

Digitalization, embodiment, mobility and repairment in relation to Gender and Diversity, Work, Educational and Daily Life

The Covid-19 pandemic makes visible the intersecting positions and hierarchies of embodied work, as well as the merits and limits of the digital. We invite feminist techno-science approaches to themes of gender, diversity, and inclusion vis-a-vis the societal-scale shifts to online platforms (Zoom, Microsoft Meetings, etc.) and more digitalized lives and labor in response to the pandemic that foregrounds how everyday life depends on materialities and embodied labor. Doctors, nurses, drivers, teachers, social workers, cleaners, cashiers, researchers and many others are essential to fighting the pandemic and meeting lives' and societies' basic necessities.

Hence our broad question: how should we conceptualize, design for, and speak about "recovery" from the pandemic? Who should / will be included in a "recovery" of pre-pandemic practices of travel and affiliated conceptions of place and mobility as privileges tied to class, gender, ethnicity, etc? How are we to conceptualize and thereby shape how we think and feel about possible futures and the role of digital technologies therein? What happens, moreover, if we shift from "recovery" to "repairment"? Repairment can further implicate notions of entanglement and co-generation, evoking new questions. What is needed is to repair unjust social, cultural, spiritual, economic, and political structures and systems, and most especially the climate and ecosystems of the planet we live on - can we discern and better design for our interrelationality via computational and network technologies?

WG9.9 ICT and Sustainable Development

Covid-19 – Missed opportunity or the transition to a sustainable and fair society?

For a couple of decades now researchers within fields related to ICT have discussed the sustainability-related potential of the technology. Conventional approaches include for example optimization of energy and resource use in production and transportation, and dematerialization (i.e. replacing physical goods with digital ones). However, despite the potential of ICT to contribute to sustainability, we have not yet seen this potential being fully exploited. Instead, the environmental footprint of ICT products (energy consumption, resource use, disposal) is increasing, among other things due to the short useful life of many ICT products, its linear value chain ("take-make-waste") and various more or less unexpected rebound effects of ICT development. Among other things, it has recently been estimated that data centers world-wide consume around 200 TWh yearly, and this figure is likely to increase in the coming years with among other things the increased popularity of video and game streaming and crypto currencies such as Bitcoin (which currently consumes as much electricity as the Netherlands to maintain). In summary, while there is certainly potential for ICT to do good for the environment, current trajectories show that the footprint of ICT is increasing while the full sustainability-related potential of the technology is not exploited.

But with the Covid-19 pandemic currently ongoing – to recite Naomi Klein and the title of the HCC13 conference – this (surely) changes everything! We have been forced to drastically change our unsustainable transportation and consumption patterns and have instead relied on ICT-supported, more sustainable, alternatives. Well, according to the

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(Continued from page 14)

EEA Briefing "COVID-19 and Europe's environment: Impacts of a global pandemic", the environmental impacts have not been as radical as many researchers hoped for and believed when the almost world-wide lockdown started around one year ago. Many now instead argue that the pandemic was a "missed opportunity" to radically transform our society into a more sustainable one. But perhaps it is still not too late?

We encourage the submission of papers focusing on the relation between ICT and sustainable development in general, but reflect on the role of ICT in a sustainable and fair post-Corona society in particular.

* * *

Paper Submission

The conference is open to attendees at all stages of career and education, whether you are at the start, middle or peak of your career, either as academics or practitioners. Submitted papers should be approximately 3,000-5,000 words in length. Please return your paper, using the appropriate format, through http://www.hcc15.net/

There are no video conferencing facilities at the venue. Remote presentation via Zoom will be considered on a case-by-case basis.

Please be sure to indicate whether you are submitting to the conference general theme, or to one of the specific workshops. **Papers must be anonymized for blind peer review**.

Important Dates:

January 31, 2022 - Submissions due March 31, 2022 - Notification of acceptance/rejection April 30, 2022 - Submission of camera-ready papers July 31, 2022 - Deadline for early bird registration September 7 - 9, 2022 - Conference dates

Chairs:

Conference Chairs: Taro Komukai, David Kreps Programme Committee Chair: Robert Davison Organizing Committee Chair: Kaori Ishii

Proceedings Editor: David Kreps

Proceedings Co-Editors: Taro Komukai, Robert Davison, Kaori Ishii

Workshop Chairs:

WG9.2: Jani Koskinen, Anne-Marie Tuikka WG9.4: Johan Ivar Sæbø, Silvia Masiero

WG9.5: Brad McKenna, Petros Chamakiotis, Kathrin Bednar

WG9.8: Charles Ess, Johanna Sefyrin, Sisse Finken

WG9.9: Per Fors

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IITPSA responds to government policies for digital development in SA

The Institute of Information Technology Professionals South Africa (IITPSA) has welcomed the government's commitment to strengthening its digital capacity and moving the country into the 4th Industrial Revolution, but has questioned the need for the government to create a new SOE, and the implementation model and costs associated with some of its plans.



Responding to the Department of Communications and Digital Technologies' draft national data and cloud policy, which outlines plans to develop a State Digital Infrastructure Company (SDIC) and High-Performance Computing and Data Processing Centre (HPCDPC), members of the IITPSA Board said this was further evidence of the government's commitment to digital progress. The plans aim to consolidate excess capacity of publicly funded data centres and deliver processing, data facilities, and cloud computing capacity. The government also plans to develop ICT special economic zones, hubs, and transformation centres.

In its draft policy, the Department states: "South Africa's effective response to these challenges will depend significantly on the extent to which it exploits opportunities presented by the digital economy, through the development of policy frameworks that harness the economic and social potential of data and cloud computing. Such policy frameworks should be citizen-centric and support already existing government initiatives of universal access and affordability of services. Most importantly the frameworks should ensure that challenges associated with lack of access to digital infrastructure, devices, software, applications and digital skills are addressed."

IITPSA President Thabo Mashegoane says the draft policy indicates that the government is considering the gravity of the 4IR and taking a progressive stand on digital development. "This is an indication that the government is moving to try to overcome challenges that have hampered its digital progress in the past – such as concerns about security when storing and moving data of national importance," he says. "At the same time, it indicates a willingness to address issues such as SMME access to digital technologies, a lack of digital skills in the country, and the barriers to entry preventing millions of South Africans from benefiting from the 4IR."

Mashegoane says the IITPSA has long motivated for efforts to support progress through universal access to the digital world. "With low cost – or free – universal access to the internet for all citizens, South Africa would have an opportunity to achieve public service delivery excellence, quality and equitable education to all, e-healthcare, vocational elearning programmes, and new business development opportunities."

IITPSA Board member Moira de Roche notes that the draft raises questions around why the government would create a new platform and state-owned company to focus on data and networking, particularly since the primary purpose of the government should be to set, implement, and monitor policy. She says the private sector is well placed to partner with the government on the implementation of a High-Performance Computing and Data Processing Centre (HPCDPC). She notes: "While a Centre for High Performance Computing exists in Cape Town, run by CSIR, there is an opportunity to expand the scope of these centres. If the private sector is brought in, and they can run the centre in a way that affords small and medium businesses access to cloud computing at a reasonable price, then it could be very beneficial."

IITPSA board member Kudzayi Chipidza says it is encouraging to note that the government recognises the importance of advanced digital infrastructure, digital development, and skills transfer. "Digital progress is crucial for business development, creation of employment and broad economic progress. As the industry body for IT professionals in South Africa, the IITPSA and its members offer our expertise to support the government on achieving the goals of these initiatives in the most cost effective and transparent way possible," he says.

For further information, interviews or images, please do not hesitate to contact Leigh Angelo at leigh@tradeprojects.co.za or Cell: 082 954 7833

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Pandemic impact on ICT skills in the spotlight in 2021 ICT Skills Survey



The impact of the Covid-19 pandemic on ICT skills is expected to be revealed by the 2021 ICT Skills Survey carried out by Wits University's Joburg Centre for Software Engineering (JCSE) in partnership with the Institute of Information Technology Professionals South Africa (IITPSA), which has now gone live for the first time since 2019.

The survey, an important guide to the state of ICT skills in South Africa, did not take place in 2020 due to the disruptions caused by the pandemic. It is expected that this year's survey will highlight the changes that have been wrought on ICT skills demand and supply over the past 18 months.

Adrian Schofield, production consultant at the IITPSA and co-author of the JCSE-IITPSA ICT Skills Survey report, says: "The clear message coming out of the past 18 months is that the world of work for everybody has changed. For the ICT skills environment this means two things – the way in which ICTs are used across the board in any working environment has changed, impacting the need for support for people working from home. The other is the ongoing need for developing systems that are appropriate in the Covid-19 world and the ability to manage those systems in a more distributed environment than many organisations – SMBs in particular – are accustomed to."

Schofield says: "While we cannot predict the outcomes, the 2021 ICT Skills Survey might find the demand for skills remains constant, possibly increasing in some areas; but the way in which people acquire those skills may be changing from the traditional meeting in a fixed environment to learning things on a more remote basis. The travel restrictions do have an impact on the mobility of skills across borders, and we hope to get some indication of how that is affecting our market."

Prof. Barry Dwolatzky, director of the JCSE and co-author of the report, says: "What the Covid-19 pandemic has done has given huge impetus to digital transformation. The acceleration has been huge, so we might be seeing people in different sectors or job descriptions now seeing themselves as digital professionals. An interesting thing that has happened over the last year is that almost all learning has moved from being face-to-face, to virtual. In the past we made a distinction between in-person learning and virtual learning, and it will be interesting to see how this impacts the findings on how companies source and grow skills now."

The JCSE-IITPSA Skills Survey assesses skills demand and supply from both a corporate and practitioner perspective. Its objective is to identify the most pressing skills needs from the corporate perspective, balanced with the view of current skills capacity of the practitioners and their intentions for future skills development. The questionnaire is in a consistent format to track trends and is published as an on-line survey.

In the corporate survey, the research looks at digital skills shortages and capabilities across key technologies in 20 industry sectors; as well as the ICT skills organisations expect to need in the next 12 months and how organisations plan to meet these needs. In this year's survey, organisations will also be asked how the Covid-19 pandemic affected skills availability, and what impact the pandemic has had on workforces. The ICT practitioner survey will assess the qualifications practitioners have, their approach to further skills development, and how the pandemic has affected their work.

The two questionnaires are now live and can be accessed here where respondents can register and then login to For further information or interviews please contact Leigh Angelo: leigh@tradeprojects.co.za; Cell: 082 954 7833

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Homage to two men for making India's tryst with IT Globally Adorable

Dr. T V Gopal

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Maj. Gen. A Balasubrahmanian, AVSM, Retd. [01 March 1927 – 20 January 2016]

Served the Indian National Army for 34 Years. AVSM is a military award of India given to recognize the [peacetime equivalent]"distinguished service of an exceptional order" to all ranks of the armed forces.

Distinguished Alumnus [Graduate of 1949 Batch, P.G Diploma, Electrical Engineering], College of Engineering, Guindy Campus, Anna University, Chennai.

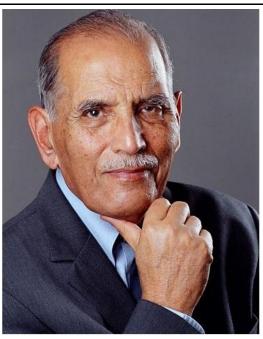
In 1950, he joined the Army, Corps of Signals and held various Technical appointments at the Army HQ and other units that dealt with Technical Equipment.

He also served as an instructor at the Military College of Telecommunication Engineering [MCTE], Mhow.

He was involved in the Design and Development of Simulators at Defence Research and Development Organization (DRDO).

Between 1962 and 1963, he set up first Computer Centre in the Ministry of Defence with Digital and Analogue Computers.

He served as Director [EDPS] and Technical Secretary of Advisory Group for Computers in Ministry of Defence during 1975–1984.



Mr. F C Kohli
"Father of the Indian IT Industry"
[19 March 1924 - 26 November 2020]

Awarded "Padma Bhushan" in the Year 2002 by the Government of India.

"Padma Bhushan" is the third-highest civilian award in the Republic of India.

BA and BSc (Honors) from Gov't College for Men, Lahore at University of the Punjab, Lahore.

BSc(Honors) in Electrical Engineering [1948], Queen's University, Canada..

MS [1950] at Massachusetts Institute of Technology [MIT], Boston, USA.

He trained in power system operations at Ebasco International Corporation, New York, Connecticut Valley Power Exchange, Hartford and New England Power Systems, Boston, USA. He also worked with General Electric for some time before returning to India in 1951.

He is called the father of IT in India for three reasons:

his leadership role in pioneering the Software export revolution

his close involvement in creating the necessary eco system for development of computerisation (engaging with academic institutes to develop manpower) Page 19 IFIP News June 2021

- He was an Officer on Special Duty (Computers) in Department of Electronics, Government of India during 1971-1979.
- He was the Founder and Chairman of Universal Digital Communication Research Institute, New Delhi. This was approved by the Department of Science and Technology, Government of India in 1981.
- Though he had officially retired from service as Major General in 1984, he had served as an Officer on Special Duty (Computer Systems) in the Ministry of Defence (1984–1985)
- He was a Professor (Computers) at Indira Gandhi National Open University (1988-1992)
- He has championed the design and deploymnet of the ICT for the Differently Abled.
- First CSI GA Representative [1983-1994] and IFIP Vice-president [1990-1994]. Awarded "Silver Core" by IFIP.

- for promoting large scale of computerisation in India, such as in Government (Railways, Income Tax) and Banks.
- He shaped Tata Consultancy Services (TCS) to be a technology powerhouse providing services across the globe. TCS is today globally one of the largest software services providers.
- He was on the board of Tata Sons, Tata Industries, Tata Unisys, Tata Electric Company, Tata Honeywell, Tata Technologies Singapore, Airline Software Development Consultancy India, Airline Financial Support Services India.
- He had also been the chairman of Tata Elxsi India, and WTI Advanced Technologies.
- Outside of the Tata Group, he has been a director of Abacus Distribution Systems, and Triveni Engineering Works.
- He was president and chairman of Indian IT services advocacy body, NASSCOM, between 1995 and 1996.

It is a matter of historical coincidence that the first proposal for forming a society of Technical, Societies enunciated by I.L. Auerbach were formally accepted at the UNESCO planning conference in New Delhi in June 1957 and the First International Conference on Information Processing (ICIP) held in June 1959 in Paris when the formation of IFIP was endorsed. India was a participant in both these meetings.

CSI evolved out of the All-India Computer User's Group [AICUG] formed on June 6, 1964 on the initiative of Professor Harry D. Huskey who was then Visiting Professor at the Indian Institute of Technology, Kanpur, under an Indo-American Programme. The June 1964 meeting was held at the IBM Educational Centre, Faridabad with 16 eminent professionals from 8 leading organizations in India including the Planning Commission, Government of India as its members. Three visitors also attended this meeting. Maj. Gen. A Balasubrahmanian was one of the members and was with the Defence R & D Laboratory [DRDL], Hyderabad. The first meeting of AICUG was at the Tata Institute of Fundamental Research [TIFR], Bombay between 22 – 25 October 1964. During the second meeting on December 18, 1964 at the Indian Institute of Technology [IIT], Kanpur, the AICUG was renamed as the Computer Society of India [CSI]. A 1.5 A4 page Constitution was written and adopted for the Computer Society of India [CSI]. Prof. R Narasimhan, TIFR, Bombay and Maj. Gen. A Balasubrahmanian, DRDL, Hyderabad were elected as the Founder President and Founder Secretary of CSI respectively. The Founder Secretary of CSI registered it under the Public Societies Registration Act on 6 March, 1965. Defence Research and Development Laboratory, Hyderabad has agreed to house CSI under the certificate of registration No. 41 of 1965 with the Registrar of Societies, Hyderabad. The task of drafting a new constitution to the satisfaction of all its members took quite a few years and was not an easy one.

"There is a seductive fascination in software. There is a pride of accomplishment in getting a program to run on a digital computer, a feeling of the mastery of man over machine." - M. Rubinoff. Preface to Advances in Computers 9, F.L. Alt and M.Rubinoff (Eds.), Academic Press, New York, 1968.

Indian contributions to IFIP Congresses, conferences and workshops have been made since the IFIP Congress 68. Both Maj. Gen. A Balasubrahmanian and Mr. F C Kohli were actively involved with the success of many conferences under the aegis of IFIP.

The coming together of these two pioneers within CSI seems to have formally happened when Mr. F C Kohli was unanimously elected as Chairman, CSI Bombay Chapter on October 16, 1970. Maj. Gen. A Balasubrahmanian [then Lt. Col.] was the President of CSI.

The formal constitution of CSI was adopted on the January 16, 1971 on the last day of the Sixth Annual Conference of the CSI at the National Aeronautical Laboratory, Bangalore. Mr. F C Kohli's far-sighted inputs for the constitution of CSI have been duly acknowledge by the IT Profession.

The first newsletter of CSI discussed IFIP membership in March 1965. CSI was affiliated to IFIP effective in 1974 as the thirtieth member. India was admitted as a member of IFIP and a saga of a developing country (DC) endeavouring to establish an interface into the IFIP mission began in true earnest. Maj. Gen. A Balasubrahmanian served as the First CSI GA Representative [1983-1994] and IFIP Vice-president [1990-1994]. The CSI Digest was a unique

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publication that reproduced papers published in various IFIP Conferences and make them accessible to the Institutions and Professionals in India who could not afford to purchase the conference proceedings.

Maj. Gen. A Balasubrahmanian is best remembered for being the founding secretary of the Computer Society of India in 1965. During his tenure as president of CSI from 1969 to 1972, he charted the future course of action for the association. His tryst with IT had started even earlier when after the Chinese War in 1962, A Balasubrahmanian was picked as a major from the Army Signal Corps [ASC] to head the computer centre set up by the Défense Ministry. His subsequent roles included being the technical secretary of the Advisory Group on Computers in Defence as well as the EDP Director at DRDO HQ. In recognition of his services, he won the 'Silver Core' from the International Federation of Information Processing. Maj. Gen. A Balasubrahmanian advocated the Quality Assurance mechanisms in the non-formal sector in Computer Education through the DOEACC Society.

In 1969, Mr. F C Kohli who was the Deputy General Manager, in the Tata Electric Companies moved to the Tata Consultancy Services [TCS] as General Manager, when Mr.P.M.Agarwala (then MD of Tata Electric Companies) was Director in Charge. Mr. F C Kohli set up the computerised Load Despatch system to control the power lines between Mumbai and Pune making TCS the third utility company in the world to install such a system. His involvement with computers had started.

"Many years ago, there was an Industrial revolution. We missed it due to reasons over which we had no control. To-day, there is a new revolution in Information Technology, which requires the capability to think clearly. This we have in abundance. We have an opportunity to participate in this revolution on an equal footing; we even have the opportunity to be leaders". – Mr. F C Kohli, President of CSI, Excerpted from his Address at CSI Annual Convention, Ahmedabad, January 1975.

Mr. F C Kohli was the President of CSI from 1974 to 1976 and a founding member of South East Asian Regional Computer Confederation [SEARCC] in 1976. Mr. F C Kohli traced the origins of SEARCC under the sponsorship of IFIP, UNESCO, IBI, Singapore Computer Society and CSI. He opined that SEARCC is a Commonwealth of the Computer Societies in the region. This was for an article on SEARCC and CSI written by Mr. F C Kohli, the then Advisor SEARCC for the Silver Jubilee Special CSI Communications in November 1990. In this same issue Maj. Gen. A Balasubrahmanian outlined the CSI – IFIP relation to position "The Indian Professional in the Computing World".

Mr. F C Kohli also played an important role in advancement of technical education in the country. In 1959, under a request from P. K. Kelkar, the founding director of Indian Institute of Technology Kanpur, he helped with the faculty selection and recruitment.

"To summarize, by making use of IT, communications and having a systematic approach with System Engineering and Concurrent Engineering, we can change the face of this country" – Mr. F C Kohli, "IT Revolution in India – An Assessment", CSI Communications, Pp 8-11, December 2004.

Both the authors of this homage salute these two pioneers of the Indian IT World and acknowledge their advice for many initiatives for the Society at Large through the portals of the Computer Society of India.

"The future is dark, the present burdensome. Only the past, dead and finished, bears contemplation. Those who look upon it have survived it; they are its product and its victors. No wonder therefore that men concern themselves with history." - G.R. Elton. The Practice of History, Sydney University Press, Sydney, Australia, 1967.

Both Maj. Gen. A Balasubrahmanian and Mr. F C Kohli instilled hope and faith in the minds of many fellow professionals across the world primarily through the IFIP and South East Asian Regional Computer Confederation [SEARCC]. Many eminent professionals excelled in:

relating software to the hardware of computers

- design of software
- · production, or implementation of software
- distribution of software
- service on software.

Mr. F C Kohli guiding the fortunes of the Nation in the field of Software has been a marvel to look back during the life – time of those who were influenced by him. He crafted the "Adult Literacy Programme" in India.

Both Maj. Gen. A Balasubrahmanian and Mr. F C Kohli were there during the defining moments of Software Engineering and both of them made happen the India Tryst with IT all over the world over a span of five decades. Both of them won several admirers and accolades for the Country.

Many IT professionals were carefully chosen and groomed by these two pioneers of IT in India to breathe life into the aspirations of billions of Indian Nationals all the world.

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In retrospect, the authors clearly see a wonderful synergy between the various stakeholders in IT that was diligently fostered by Maj. Gen. Balasubrahmanian and Mr. F C Kohli through the professional societies. The outcomes of such a synergy are evident till today in the form of Computer Manufacturing in India, Affordable and effective establishment of Computer centres in various academic and research organizations pan India and the formulation policies to encourage the growth of software export.

Maj. Gen. Balasubrahmanian was directing the formulation of the pertinent policies through the Government of India in the pioneering days. He is often described as the Man who landscaped the IT Field in India. In addition, he has also nurtured several associations dedicated to Music and Dance.

One needs to thank both <u>Maj. Gen. Balasubrahmanian and Mr. F C Kohli</u> for creating the manpower for the nation to tide over many crises by deploying ICT within the Academia, Research Institutions, Industry and the Society at Large.

Invitation to the IFIP TC3 OCCE 2021 Conference 17-20 August 2021

We invite you to participate in the IFIP TC3 Conference OCCE 2021 DTEL, "Digital Transformation of Education and Learning - Past, Present and Future". The conference will reflect on the continuous development and future outlook of ICT and education. It also celebrates six decades of IFIP and five decades of the IFIP TC3 Working Group 3.4 for Professional, Higher and Vocational Education in ICT. The Conference provides an international forum where a community of professionals from academia, industry, and educational and public sectors come together to share research findings and experiences. We particularly wish to encourage participants from middle- and low-income countries.

https://occe2021.fi/

IFIP TC3 OCCE 2021 DTEL is a hybrid conference, taking place in Tampere, Finland. We are working continuously to have a safe and productive IFIP TC3 conference. Due to the pandemic uncertainty, we are constantly monitoring the situation. If you cannot attend OCCE 2021 in person due to circumstances, such as your employer's policy not allowing you to travel, Government-imposed travel restrictions to come to Finland, or Government policy requiring you to subject to quarantines, we will waive your in-person presentation requirement and change your participation to a virtual presentation.



We are happy to announce our third keynote speaker – Katariina Salmela-Aro. She is Academy Professor and Professor of Educational Sciences and Psychology at the University of Helsinki, Finland. Her keynote will address interrelated topics of "digitalization, learning and resilience". New findings will be presented, based on the new Youth Skills EU Horizon 2020 programme, on how young people use digital tools, what their key digital competences are and how these are related to their wellbeing. Key questions are: How can digitalisation promote and prevent young people's wellbeing? What are the roles of digital resilience and digital parenting? How can digitalisation promote student engagement and prevent burnout?

We look forward to meeting you either online or onsite at Tampere University in August 2021!

Conference co-chairs: Prof. Mikko Ruohonen and Dr. Jaana Holvikivi

Important dates:

Paper submission: Now closed Acceptance notification: Notified

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

Workshop on Stochastic Games with Partial and Asymmetric Information https://www.carloalberto.org/event/workshop-on-stochastic-games-with-partial-and-asymmetric-information/	STOCHGAMES	06/07-07/07 2021 Torino, IT /Virtual Conf	IFIP WG7.7 / IFIP TC7
Doctoral Conference on Computing, Electrical and Industrial Systems http://doceis.dee.fct.unl.pt	DoCEIS`21	07/07-09/07 2021 Virtual Conference	SIFIP WG 5.5 /OCOLNET - Society of Collaborative Networks
International Symposium on Human Aspects of Information Security & Assurance https://www.haisa.org	HAISA	07/07-09/07 2021 Online, GR	IFIP WG 1.12 / IFIP TC 11 / Assurance, the international journal Information & Computer Security and the Colloquium for Information Systems Security Education (CISSE)
IFIP 18th International Conference on Product Lifecycle Management https://www.plm-conference.org/en/	PLM2021	11/07-14/07 2021 Curitiba, BR / Online	IFIP WG5.1 / IFIP TC5
35th Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy https://wpsites.ucalgary.ca/dbsec2021/	DBSec 2021	19/07-20/07 2021 / Virtual, CA	IFIP WG11.3 / IFIP TC11
Workshop `Design with Interactivity and Connectivity` at DAPI 2021 https://designpromotion.org/2020/11/20/workshop-design-with-interactivity-and-connectivity-atdapi-2021/	DIC	24/07-29/07 2021 Washington DC, US	Design Promotion in Europe and China
Open Conference on Computers in Education - Digital Transformation of Education and Learning - past, present and future https://www.ifip- tc3.org/working-groups/working-group-3-4/	OCCE2021 DTEL	17/08-20/08 2021 Tampere, FI	IFIP TC3
International Cross Domain Conference for Machine Learning & Knowledge Extraction https://cd-make.net/	CD-MAKE 2021	17/08-20/08 2021 virtual Event, AT	IFIP WG8.4 / IFIP TC8
AI4KM invites First AIES 2021 ifipgroup.com	AIES	21/08-26/08 Virtual Conference	IFIP WG12.11 / IFIP TC12
INTERACT 2021 - International Conference on Human-Computer Interaction http://www.interact2021.org/	INTERACT 2021	30/08-03/09 2021 Bari, IT	IFIP TC13
ITC 33 - Networked Systems and Services https://itc33.org/	ITC 333	31/08-03/09 2021 Virtual Conference	IFIP, IEEE COMSOC and ACM SIGCOM
The 20th IFIP Conference e-Business, e-Services, and e-Society I3E2021	i3e2021	01/09-03/09 2021 Galway, IE	IFIP WG6.11 / IFIP TC6

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

Advances in Production Management Systems https://www.apms-conference.org/	APMS		CNRS (National Centre for Scientific Research), France / IFAC TC 5.2 / Centrale Nantes (France) / Nantes University (France) / Rennes school of business (France) / Audencia (France)
ePart https://dgsociety.org/egov-2021/	EGOV2021	06/09-09/09 2021 Granada, ES	IFIP WG8.5 / IFIP TC8
Forum on specification & Design Languages http://fdl-conference.org/index.html	FDL`21	08/09-10/09 2021 Antibes, FR	INRIA, University of Verona, CNRS expected, IEEE expected, CEDA expected
Networked Systems 2021 https://netsys2021.org/	NetSys2021	13/09-16/09 2021 / Lübeck, DE	University of Hamburg
Network Traffic Measurement and Analysis Conference 2021 https://tma.ifip.org/2021/	TMA 2021	13/09-15/09 2021 Virtual Conference	
IFIP International Conference on Testing Software and Systems http://ictss2021.cs.ucl.ac.uk	ICTSS	13/10-15/10 2021 London, GB	IFIP WG6.1 / IFIP TC6
ETRIA World Conference `TRIZ Future` 2021 https://tfc21.events.unibz.it/	TFC21	22/09-24/09 2021 Bolzano, IT	IFIP WG5.4 / IFIP TC5
51st Annual Conference of the German Informatics Society	INFORMATIK 2021	27/09-01/10 2021 Berlin, DE	Gesellschaft für Informatik e.V.
International Conference on Very Large Scale Integration http://www.vlsi-soc.com/	VLSISoC	04/10-08/10 2021Virtual Conference	IEEE
International Conference on Research and Practical Issues of Enterprise Information Systems	CONFENIS	16/10-17/10 2021 / Suzhou, CN	IFIP WG8.9 / IFIP TC8
The Second International Conference on Industrial Information Integration Engineering	ICIIIE	16/10-17/10 2021 Suzhou, CN	IFIP WG8.12 / IFIP TC8
19th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks http://wi-opt.org	WiOpt 2021	18/10-21/10 2021 Philadelphia, US	IFIP / IEEE Control Systems Society, IEEE Information Theory Society
13th IFIP Wireless and Mobile Networking Conference http://www.cnsm-conf.org/2021/	IFIP WMNC	20/10-22/10 2021 Montreal, CA	IFIP / IEEE, IEEE ComSoc

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