

IFIP IoT 2019

31 October and 1 November 2019, Tampa, Florida, USA

Hosted by the University of South Florida the second working conference of the IFIP Domain Committee on the Internet of Things was a successful continuation of the 2018 edition. Two keynote speakers kicked off each conference day. On day one it was Marilyn Wolf, University of Nebraska-Lincoln, on *“The case for edge intelligence”* and day two Swarup Bhunia, Warren B. Nelms Institute for the Connected World spoke about *“Innovations in IoT for Solving Global Problems”*. The program further included 11 refereed papers and 12 invited papers on a broad variety of topics which perfectly serves the goal of the domain committee to address all aspects related to the IoT. In addition in a PhD Forum 9 students presented posters on their work. A panel session on artificial intelligence and the internet of things debated questions like “Are we intelligent enough to optimize the potential of IoT or do we need AI?”, “Which research areas in AI and/or IoT should get more attention in order to benefit from the potential that the IoT is promising”, “Which research areas in AI and/or IoT should get more attention in order to achieve a safe and secure use of the IoT” and “Information from sensors has been collected and analyzed for decades (?). How is AI making a difference”.



The average number of participants in each session was 30-40. In addition to the 30 paying participants, the organizers allowed students (among them many volunteers for the event) to attend the sessions. This provided an excellent opportunity for the students to meet their peers and get involved in discussions. The many questions asked to presenters was an indication that this is a useful way for getting the younger generation involved in IFIP events.

For the full program see <http://ifip-iotconference.org/program.html>

The post-conference proceedings are currently being compiled and will be available early 2020. The third edition of this event will take place end of 2020 in The Netherlands.

IP3 News



David O'Leary prize by REDDS Capital

Deputy CEO of the Irish Computer Society (ICS), Mary Cleary won the inaugural David O'Leary Award in recognition of her ethical and professional leadership over many years.

The IFIP IP3 David O'Leary Award from REDDS Capital was named in honour of a man who made an enormous contribution to the IFIP Global Industry Council, who embodied and was a role model for all the qualities of a true Professional. To be presented each year, the award will acknowledge an individual or organisation 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.

In receiving her award at the recent IFIP meetings in Kiev, Ukraine, Ms Cleary said she was surprised and delighted to be honoured in this way.

For more about Mary Cleary and the award, click [here](#).

We will be calling for nominations again early in 2020. However, we are happy to receive nominations at any time. The winner receives a cash prize of USD1000, and travel expenses to GA to receive the award.

IP3 Chair visits Botswana

Moira first met with delegates from Computer Society Botswana (CSB) at GA 2018, in Poznan.

She first visited the Chairman Audrey Mazikana and her colleagues in the Society in August 2019. She used this time to talk about IFIP and IP3, and the benefits of belonging to IFIP. As CSB Members are predominantly academics, she also discussed the role of Educators in producing ICT Professionals.

Moira was invited back in November to keynote the Computer Society Botswana's annual Symposium. Her address covered the requirements for an ICT Professional, and what skills they need to take them into the future. The presentation can be found [here](#).

She stayed on to attend the CSB AGM later that day, and used the opportunity to encourage membership of CSB, and the benefits of CSB joining IFIP. Moira also shared tactics for growing membership.

Global Digital Skills Project

This project, under the leadership of Liesbeth Ruoff, was discussed in some detail during our face-to-face meeting in Kiev in October. Various funding opportunities were explored, whilst we continue to liaise with CSTD.

IP3 Deputy Chair keynote in Sri Lanka on the Ethics & Regulation of AI

ACS Past President and Deputy Vice-Chair of IP3, Anthony Wong gave a keynote at the 37th National Information Technology Conference (NITC), Sri Lanka's largest and longest running ICT conference organised by the Computer Society of Sri Lanka (CSSL) recently in Colombo under the patronage of the Digital Infrastructure and Information Technology Minister Ajith P Perera. His keynote focused on the ethical and regulatory issues which have triggered alarm with regulators and the ethical debates around the world on the deployment and use of deep and machine learning in AI.

IFIP Code of Ethics

IP3 Director Margaret Havey (representing MSA) and Moira de Roche are working with the Task & Finish Team, under the leadership of TC9's David Kreps, and Don Gotterbarn.

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The Code of Ethics will be sent to member societies and technical committees for their comments in January.

Don has made his services available to IP3 and has been co-opted as an IP3 Director. We are delighted to have him on the IP3 board, as he will be invaluable when we work to deliver the code globally.

IFIP IP3 Vice-Chair contributing globally

Stephen Ibaraki, founder for the largest interdisciplinary summit, UN ITU AI for Good Global Summit (AIForGood) <https://aiforgood.itu.int/> continues to grow AIForGood for 2020. The summit is hosted again in Geneva from 4 to 8 May. The global audience is in excess of 1 Billion for 2020 and is the only AI summit combining 37 UN Agencies, ACM, XPRIZE (No.1 in challenge prizes), governments, industry, academia, NGOs, and 50+ media providing AI solutions to the UN SDGs.

Stephen recent speeches and panels include UN ITU Telecom World in September; two on the 5th Machine Age at IEEE ISIE in October; Institute for Accountability for the Digital Age, Accountability Summit in November; KNVI Smart Humanity Conference in November.

In December, Ibaraki's speaking at the World Youth Forum (WYF) <https://wyfegypt.com/>, by far the world's largest, creates new opportunities for partnerships for IFIP and IFIP IP3. See the LinkedIn post. https://www.linkedin.com/posts/sibaraki_catch-the-livestream-of-artificial-intelligence-activity-6612901865904578560-GkFG.

Stephen is invited to support the YPO European Impact Summit 2020 (EIS20) as chairman YPO EIS Advisory Board. This provides opportunities for engagement to IFIP. Highly private, YPO is the world's largest CEO organization: 27K+ CEOs representing companies with US \$9+ Trillion annual revenue in 130+ countries. YPO is embarking on initiatives with social impact beginning with the EU such as addressing climate change, cybersecurity, the economy, peace, and refugees. This is illustrated in these two interviews with YPO leaders http://stephenibaraki.com/cips/cips_interviewslist.html: Oleg Volkosh, EIS co-chair; Sivaaji De Zoysa, INC Chair, EIS co-chair.

News from IP3 Member KIISE

Jee-In Kim (IP3 Board member, KIISE rep) attended a workshop hosted by Software Policy & Research Institute (a Korean government agency in the ICT field).

Problems about promoting professional certificates in ICT issued by the Korean government were discussed. One of the main topics was international cooperation.

Jee-In explained the activities of IP3 and suggested co-operation and even partnership with IP3. Every participant including government officers agreed and showed their special interests. We look forward to increased activity from KIISE in 2020.

News from Europe

In Europe the CEN commission TC 428 looking after Digital Skills and Professionalism with e-CF as their first standard, organised funding to start expert groups filling in the other three pillars, being Ethics, Body of Knowledge and Certification/Education. Liesbeth Ruoff is member of the TC and also plays the role of Linking Pin between the groups and IP3, visiting meetings in Athens, Utrecht and Malta. She has a similar role regarding the Edison activities: <https://www.kdnuggets.com/2016/10/edison-data-science-framework.html>. At the Riga conference of the Big Data Value Association <http://www.bdva.eu/> she was one of the speakers in the session around the growing need of the having the right data science skills <https://www.kdnuggets.com/2019/10/growing-need-skills-data-science.html>

At the annual conference of the KNVI Smart Humanity she chaired the Smart User session. <https://www.smarthumanity2019.knvi.nl/>

News from IFIP's Italian member AICA

Congress 2019 and Italian Digital Literacy Forum

The 56th AICA Congress was held on 21-22 October at the Federico II University of Naples, organized in collaboration with the University of Naples. AICA is the Italian association that for over 50 years has been dedicated to the development of knowledge, training and digital culture. In this perspective AICA is a member of IFIP, CEPIS, and the ICDL Foundation, also being the National operator of the ECDL / ICDL programme in Italy.

The 56th Congress encouraged a reflection on the topic of skills in the current scenario, in which new digital technologies are changing business organization; the innovation and competitiveness potential of a company is now, as never before, directly connected to the intelligent use of digital networks and services. AICA convened experts, companies, managers, school representatives, universities and institutions, since in a moment of disruptive innovation the necessary skills can only be defined through a constructive synergy between actors in business and in education.

The first day opened with the greetings of AICA's President, prof. Giovanni Adorni, of the rector of the University of Naples Federico II and President of CRUI, Prof. Gaetano Manfredi, followed by a series of speeches regarding the "Knowledge society and disruptive technologies: skills for tomorrow".

The second was dedicated to the ICDL Digital Literacy Forum, the national presentation event of the new International Certification of Digital Literacy, as announced on 10 May in Brussels, evolving from the historical ECDL (European Computer Driving License) spread over 150 countries in the world. Therefore, the Digital Literacy Forum focused on one of the most relevant themes of contemporary society aiming at an active and responsible citizenship: the ability to use technology to find, organize, understand, evaluate, create and share information in a conscious manner.

The new name also corresponds to a new brand identity used throughout the world, and provides for a differentiation of the modules focused on the needs of the different recipients: citizens, students, workers and professionals..

Special international guests were Jakub Christoph and Luis Fernandez Sanz, representing respectively the ICDL Foundation and CEPIS.



The core of the Forum was the presentation of several novelties in ICDL, and a round table involving testimonials of selected Italian ICDL Test Centres, including private training providers, primary and secondary schools, universities, as well as the Italian Army School of Broadcasting and Information Technology.

The two-day conference was closed by President Adorni with a presentation of AICA Academy, a new set of services for the network of examination centers / competence centers.

More detailed information is available through AICA's website www.aicanet.it

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The Italian Minister of Public Administration praises Chambers of Commerce employees for certifying their e-skills

On December 5th Mrs. Fabiana Dadone, member of the Italian Parliament and Minister for Public Administration, attended a conference in Rome on ultra-broadband and digital transformation skills, organised by Unioncamere (the Union of Italian Chambers of Commerce) with the support of AICA; 275 Chamber employees recently completed their certification path on digital transformation, and some of them convened in Rome from every part of the country to receive the *e4job* certificate.

The Chambers of Commerce are currently involved in expanding the digital culture of SMEs, as well as in their internal digital transformation; recent results include the precise geo-localisation of 1.8 million businesses from 3,194 municipalities in the "white areas" of Italy, where governmental support is needed to complete the infrastructure for Broad and Ultra-broadband; the awareness creation of 10,000 entrepreneurs on the opportunities offered by super-fast internet; the training of 600 employees on innovation issues, 275 of whom obtained AICA's certification on digital skills.

"Connectivity and e-skills can in fact contribute to recovering the digital delay accumulated by our country, which, although rising, remains in 24th place in the ranking of the 28 European Union states according to the Digital Economy and Society Index 2019. Digitization is a fundamental driving force for the growth of our country and above all for the ability of companies to create added value in a sustainable way", highlighted the Minister.



GI releases Charter on Digital Education

The German Informatics Society (GI) has launched the 'Charter on Digital Education' as a nationwide German initiative earlier this year. Many political figures, business, and civil society stakeholders expressed their support for a shared understanding of what education in the digital age is, and what values it should be based on. The three main dimensions include technical understanding, socio-cultural context, and application orientation.

An English translation will be available soon at <https://charta-digitale-bildung.de>, and all European stakeholders are invited to show their support by signing the charter online.

The revamped WG 9.5: From 'Virtuality & Society' to 'Our Digital Lives'

We are Petros, Brad and Kathrin — a diverse team of academics interested in digital technologies and their influences on different aspects of everyday life. We took over the leadership of WG 9.5 a year ago at HCC13 in Poznań, Poland and we are happy to announce that our revamped WG name, 'Our Digital Lives', was approved earlier in October 2019. Our new name and scope allow us to more accurately contribute to current discussions on the 'digital' in a variety of domains, touching on any issues relative to 'our digital lives'. We are currently in the process of organising a few exciting events likely to lead to opportunities for collaborations across the academic and practitioner communities, so stay tuned www.ifip95wg.org. If you are interested in becoming a member and being added to our mailing list, email Kathrin (kathrin.bednar@wu.ac.at) directly.

Petros, Brad and Kathrin: The new leadership team of WG 9.5

Based in Spain, the UK and Austria, WG 9.5's new leadership team encapsulate the international and digital aspects of today's work. They are:



Petros (Chair of WG 9.5)

is currently in transit from the University of Sussex Business School in the UK to ESCP Europe Business School (Madrid Campus) in Spain where he will be an Associate Professor of Management from December 2019 onward. He is interested in the management of connectivity and digital work in its different forms. He was the Secretary of WG 9.5 between 2013 and 2018. He can be contacted by email at pchamakiotis@escpeurope.eu and on Twitter [@petros_cham](https://twitter.com/petros_cham).

Brad (Vice-Chair of WG 9.5)

is a lecturer in Information Systems at Norwich Business School, University of East Anglia, UK. His research interests can be characterised by the relationships between information technology and people. He has always been interested in how and why people use technology, and how technological configurations impact the people that use them. He can be contacted by email at b.mckenna@uea.ac.uk and on Twitter [@DrBradMcKenna](https://twitter.com/DrBradMcKenna).



Kathrin (Secretary of WG 9.5)

is a research and teaching associate (prae-doc) at the Institute for Information Systems & Society at WU Vienna, Austria. She has a background in psychology, philosophy and cognitive science and is currently looking into ethical IT design & innovation and technology attitudes. She can be contacted by email at kathrin.bednar@wu.ac.at.



Under the patronage of His Highness Sheikh
Hamdan bin Mohammed bin Rashid Al Maktoum
 Crown Prince of Dubai and President of
 Hamdan bin Mohammed Smart University (HBMSU)

**INNOVATION
 ARABIA 13**
 إبداعات عربية
 ANNUAL CONFERENCE 2020
 24 - 26 February 2020

Building the Future of Business and Innovation:
 The Internet of Things (IoT) and People

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Innovation Arabia 13: Call for Abstract

Under the patronage of His Highness Sheikh Hamdan Bin Mohammed Bin Rashid Al Maktoum, Crown Prince of Dubai and President of Hamdan Bin Mohammed Smart University (HBMSU), Innovation Arabia 13 will be held on 24 -26 February 2020 at the Dubai World Trade Centre, United Arab Emirates. The overarching conference theme is **Building the Future of Business and Innovation: The Internet of Things (IOT) and People**. Innovation Arabia 13 will consist of the following four tracks:

- The Future of Work and Play
- Smart Cities
- Learning, Wellbeing and Trust
Ethics and Technology – The Internet of Things

Hamdan Bin Mohammed Smart University in partnership with Index for Conferences and Exhibition are organizing Innovation Arabia 13 to highlight the new platforms of innovation and to respond to the challenges faced by universities, business and government department in integrating technology and innovation as a component of its DNA. Innovation Arabia 13 will provide a platform for passionate communities aspiring to a new level of success for innovation. They will be able to assess the impact of innovation on organizations and draw a plan for the future expectations of the new generations. Innovation Arabia 13 is [accepting abstracts online](#) under the following categories:

Synopsis
 Action Research
 Case Study
 Showcases
 E Poster

The conference focuses on innovation as a central engine and driving force of economic growth and development that can drive sustainable economic and social development for the region. Innovation Arabia will give a platform to talk about key points, debate issues of strategic relevance to the Arab World, present innovative ideas and share best practices. It is an outstanding opportunity to celebrate research excellence and promote professional development of the faculty, staff, administrators, and learners.

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Gender Equality

is the 5th United Nations Sustainable Development Goal (SDG). As with other SDGs, Artificial Intelligence can play a role in promoting good practices, or, to the contrary, can enhance the existing biases and prejudices. A recent workshop at IJCAI, in Macao, made the case for a number of projects relating SDGs and Artificial Intelligence. In order to push forward the questions relating AI and gender equality, the Knowledge for All foundation, the Centre de Recherches Interdisciplinaire de Paris and the Unesco Chair on OER at Université de Nantes jointly organized a one day workshop on 2nd November 2019. The workshop was built around sessions on the different aspects of the question. We were glad to give a special status to our keynote speaker, Bhavani Rao, from Amrita University, Director of the Ammachi and holder of the Unesco Chair on « Women's Empowerment and Gender Equality ».

The questions identified with the help of our program committee were the following:

Bias issues: typically, AI will reproduce the bias in the data. If the data contains a prejudice, the decision making based on AI can reproduce (and sometimes enhance) that prejudice.

Gender issues in AI projects. Is it a good idea to add a "gender officer" to an AI project? Someone who can look out so that prejudice doesn't creep in?

AI for Education:

- ◆ How educating women can make special sense?
- ◆ What do we need to look out for?

For a presentation of the key ideas discussed: <https://www.k4all.org/project/report-ai-women-empowerment/>.

14th IFIP TC9 Human Choice and Computers Conference:

“Human-Centric Computing in a Data-Driven Society”

Tokyo, Japan, 9th-11th September 2020

www.hcc14.net

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

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

“People First : One Can Hide the Data but Not the Truth”

We are now living in a "data-driven society". Data is seen as the source of value in the new digital age and creates added value for growth. The development of IoT especially enables the collection of enormous amounts of data in a range of ways and a variety of forms which can spread around the world. Data utilization is likely to continue to expand and become more and more important across all sectors of society, as the spread and penetration of automation unfolds in the coming years.

All those engaged with trying to shape the technologies of today are in some sense oriented toward the future. Is the future bright? And if so who and what will make it so – and for whom? As individuals and as team members vision and ingenuity are needed to help us realize a positive future for all.

In a data-driven society, all our choices, actions, locations, emotions, and behaviours are monitored, measured, interpreted, compared, and rated. While data is sometimes called the new oil, also this form of extraction comes with its challenges. In a data-driven society, existing inequalities can be deepened rather than solved (e.g., preventing policing, access to health insurance). While oil was a driver for economic growth, its negative effects on our planet and biosphere remained for long invisible. This time we should do better and investigate not only data as a driver of growth, but also as a driver of change we may not want to see.

The IT Industry is recognizing that a healthy employee work/life balance is essential for long-term enthusiasm and success. It is clear that a strong architectural plan with input from all stakeholders creates a vastly different, participative and delivery-focused working environment. The continued commitment to creating excellence and an atmosphere that embraces change should be the foundational characteristics of the IT Industry in the future. Treating people like they are human beings rather than automata to extract value from, is a concept that should be back in fashion. The digital traces one leaves behind each day reveal more than one knows, and such data is increasingly being used to aid organizations in swaying public opinion (cf. Cambridge Analytica and the Brexit vote / US Elections / India). As the scandals of Surveillance Capitalism (fake news makes more money) come face-to-face with true human development needs, and the ever-sharpening focus on the need for sustainable solutions, change is needed. It is also paramount to remember, moreover, that our conceptions of being human and hence what we understand within a particular cultural / historical context vary significantly from culture to culture, whilst our notion of what we consider as being human is being increasingly shaped by the technologies that we use.

The coming together of Computing, Control and Communications is resulting in several unforeseen outcomes that are beginning to make “Being Human” more and more of a challenge. It is no more a trilogy of human-centric, technology-centric and data-centric practices both in Data Management and Software Engineering. Humanizing in this context entails Privacy, Safety, Security, Human Relationships and Personal Growth; it requires new governance models for new data economy ecosystems. This is proving to be both an answer and a challenge to the productivity paradox in IT and the goal of achieving a positive future.

Human : Machine :: Efficiency : Effectiveness

Data-driven innovations, in short, are increasingly understood as only being successful and fit for purpose if they are favorable for all humanity, and not simply designed to fulfill the priorities of monopolisation and the concentration of wealth in ever fewer hands. Research into these and related issues needs to straddle multiple areas of academic studies, following the principle that technology must be of benefit to humanity and fostering faith in humanity at large is at its foundation.

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, HCC14 in 2020 focuses on

“Human-Centric Computing in a Data-Driven Society” and welcomes inputs from members of academia and research, civic society, computing associations, industry, and the IT professions on the following (and related) themes:

- Developing New Technologies Using Data for Human Society.
- Ethical and Legal Issues for Data Analytics and Big Data.
- Social Accountability and Responsibility for Computing and Data Utilization.
- Data-work in relation to Gender and Diversity, Work, Educational and Daily Life.
- How data helps to make the world a better place – with a demonstrable focus on the better, and where better is not the same as making organisations richer and CEOs more powerful.
- 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.
- How culturally diverse interpretations / understandings of life-work balance, of being human, and slow-tech and techno-feminist understandings of a data-driven society can help us shape a more human-centric computing environment
- Impact on International Security, Intelligence, and War.
- Environmental Impact of Big Data
- ICT for Development: Global Industries, Developing Economies, Sustainability.
- Analysis, design, construction, specification, development and testing of IT artefacts to defined deadlines and exacting standards
- Impact analysis of human endeavor and data analytics
- Security and privacy for big data and data analytics
- Using collaborative skills to work with team members in order to ensure reliability, availability and performance of applications
- Connectivity/digitalization affecting our working and/or private lives
- The view of human nature in a data-driven society

HCC14 will also welcome co-located TC9 Working Group Workshops

Working Group 9.1: Computers and Work - 10th CNoW: Int’l Workshop on Changing Nature of Work with ICT

AI in the Workplace: Navigating the Age of Digital Automation

With the Internet and abundant smart devices, the paradigm of computing now turns into a new world of digital automation with the strong presence of AI in the workplace (Davenport & Kirby, 2015; Genpact, 2018). People expect AI might replace or displace humans from current jobs in the near future, and that AI will multiply the cognitive and analytic powers of machines and augment or displace human capacities (Robinson & Bogen, 2017; Tito, 2017). Decision support, and robots controlling intelligence augmentation have been used at work, but the larger scale of novel AI applications based on deep learning technologies and underlying bigdata constitute a new challenge. In this context, this workshop takes the view of real – human - workers. AI in the workplace will present opportunities as well as challenges for modern day organizations. These opportunities and challenges include changes in work practices including social and institutional aspects as well as business models. In this workshop, therefore, we are aiming to identify the changes that are and will be occurring in the work environment, work routines, related policies, and business models. Other softer side issues involved in shifting towards AI are also welcome. In this regard, this workshop aims at explicating cases and theories concerning visions of AI replacing functions and activities, as well as insightful frameworks of AI, shape and patterns in AI platforms, and/or smart offices enabled by AI technologies. The scope will be shaped by the imaginations of participants’ creative contributions to the topic. Submissions of manuscripts dealing with interdisciplinary issues across political and strategic lines, as well as social and technological issues, are strongly encouraged.

Working Group 9.2: Social Accountability and Computing

To share or not to share – Social responsibility to share health related information.

There has been much active discourse concerning why people’s privacy should be protected and what are the rights of patients related to their health information. However, this is an issue that also needs to be

looked at from the viewpoint of social responsibility, because health information does not have value only for the person sharing it but also for common good. While privacy arguments for protecting health related information are valuable, the aim is to enlarge the discussion to other, less individualistically oriented, approaches. This workshop will explore various openings to both sides: To share or not to share.

Submissions related to health information, privacy, social accountability and responsible research and innovation are warmly welcomed!”

Working Group 9.5: Our Digital Lives

Given the prevalence of connectivity and digital work in its various forms, in this workshop 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): digital work in its social context, digital health, digital education, digital labour, digital games, digital tourism, online communities, social media, augmented or virtual reality, emerging technologies, or 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.

Working Group 9.8: Gender, Diversity and ICT

WG 9.8 calls for papers that explore work that unfolds with and around data; that is, work that takes place in the very collection, use, and undertakings of and on data (Fisher et al. 2017, Bossen et al. 2019) – including the often invisible forms of work (e.g. Star and Strauss 1999). With this, we are interested in studies that explore the resources (social, cultural, material, digital) that are mobilized for digital data to serve in work, educational settings, and/or daily life. We are interested in the topic from perspectives of gender and diversity and call for papers that bring feminist concerns into the analyses and e.g. explore instances of data bias (Perez 2019) in such particular work. At the same time, we welcome papers on other topics related to gender and diversity.

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.hcc14.net/> or <https://easychair.org/cfp/HCC14>

The Easychair Submission Link: <https://easychair.org/conferences/?conf=hcc14>

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

Chairs:

Conference Chair: Taro Komukai

Program Committee Chairs: Taro Komukai, David Kreps, Gopal TV, Kaori Ishii

Organizing Committee Chair: Kaori Ishii

Main Editor: David Kreps

Co-Editors: Taro Komukai, Gopal TV, Kaori Ishii

Workshop Chairs: WG9.1 Jungwo Lee; WG9.2 Jani Koskinen; WG9.5 Petros Chamakiotis and Brad McKenna

Important Dates

January 31, 2020	- Submissions due
March 31, 2020	- Notification of acceptance/rejection
April 30, 2020	- Submission of camera-ready papers
July 31, 2020	- Deadline for early bird registration
September 9 - 11, 2020	- Conference dates.

Digital Equity Committee Funding

Funds are available to support PhD students from developing countries to attend HCC14 or one of the WG Workshops if an application to the IFIP Digital Equity Committee is made through the Chair of Technical Committee 9, David Kreps. Please see <http://www.ifiptc9.org/>

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

Empowering teaching for digital equity and agency http://www.tiss.edu/	ETDEA	06/01-11/01 2020 Mumbai, IN	IFIP TC3
Leeds Winter School on Theory and Practice of Optimal Stopping and Free Boundary Problems https://conferences.leeds.ac.uk/osfbp/	LWSOSFBP	13/01-17/01 2020 Leeds, GB	IFIP / EPSRC, Royal Statistical Society (to be confirmed), School of Mathematics of the University of Leeds
The First International Conference on Industrial Information Integration Engineering	ICIIE	16/01-17/01 2020 Sharjah, AE	IFIP WG8.12 / IFIP TC8
International Conference on Research and Practical Issues of Enterprise Information Systems	CONFENIS	17/01-18/01 2020 Sharjah, AE	IFIP TC 8 WG8.9
International Symposium on Environmental Software Systems 2020 http://www.isess.net	ISESS 2020	05/02-07/02 2020 Wageningen, NL	IFIP WG5.11 / IFIP TC5
3rd International Conference on Computational Intelligence in Data Science http://www.iccids.in/	ICCIDS 2020	20/02-22/02 2020 Chennai, IN	IFIP / CTS, SSN Trust, USAM Technology Solutions Pvt. Ltd., Boston IT Solution (India) Pvt. Ltd.
9th International Precision Assembly Seminar https://www.ipas-seminar.com/	IPAS 2020	15/03-18/03 2020 Kitzbuhel, AT	IFIP / CIRP (TBC)
INTERNATIONAL CONFERENCE ON INTEROPERABILITY FOR ENTERPRISE SYSTEMS AND APPLICATIONS http://jesa2020.enit.fr	I-ESA2020	26/03-27/03 2020 Tarbes, FR	IIFIP / I-VLAB, PGSO
I3E 2020, e-Business, e-Services, and e-Society http://i3e2020.org	I3E	06/04-08/04 2020 Skukuza, ZA	IFIP WG6.11 / IFIP TC6
International Workshop on Coalgebraic Methods in Computer Science https://www.coalg.org/cmcs20/	CMCS 2020	25/04-26/04 2020 Dublin, IE	IFIP WG1.3 / IFIP TC1
Doctoral Conference on Computing, Electrical and Industrial Systems http://doceis.dee.fct.unl.pt	DoCEIS`20	06/05-08/05 2020 Caparica (Lisbon), PT	SOCOLNET - Society of Collaborative Networks (Main Sponsor) / IFIP WG5.5 / IEEE-IES (if accepted)
The 16th International Conference on Open Source Systems http://www.oss2020.org	OSS 2020	12/05-13/05 2020 Innopolis, RU	IFIP WG2.13 / TC2
INTERNATIONAL CONFERENCE ON OPTICAL NETWORK DESIGN AND MODELLING https://ondm2020.cttc.cat/	ONDM 2020	18/05-21/05 2020 Castelldefels, ES	IEEE Communications Society (in-progress)
35th IFIP TC-11 SEC 2020 International Information Security and Privacy Conference https://sec2020.um.si/	IFIP SEC 2020	26/05-28/05 2020 Maribor, SI	IFIP TC11
ARTIFICIAL INTELLIGENCE APPLICATIONS AND INNOVATIONS http://www.aiai2020.eu/	AIAI 2020	05/06-07/06 2020 PORTO CARRAS, grand resort MARMARAS CHALKIDIKI, GR	IFIP WG12.5

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

IFIP Networking Conference https://networking.ifip.org/2020/	Networking	23/06-25/06 2020 Paris, FR	IEEE ComSoc
The IFIP 2020 20th Open Conference of the International Federation for Information Processing WG 8.3 on Decision Support ifip2020dss.com	IFIP DS 2020	24/06-26/06 2020 Wroclaw, PL	IFIP WG8.3 / IFIP TC8
The Third International Conference on Topics in Theoretical Computer Science http://cs.ipm.ac.ir/ttcs/2020/	TTCS 2020	01/07-03/07 2020Tehran, IR	IFIP WG1.8 / IFIP TC1
Automata 2020 https://automata2020.weebly.com/	AUTOMATA2020	10/08-12/08 2020 Stockholm, SE	Oxford Immune Algorithms
The 19th conference on electronic government and the 12th conference on electronic participation http://dgsoc.org/egov-2020/	EGOV	31/08-02/09 2020 Linkoping, SE	IFIP WG8.5 / IFIP TC8
IFIP TC7 conference on System modelling and optimization https://modemat.epn.edu.ec/ifip_tc7_2020/	IFIP TC7	31/08-04/09 2020 Quito, EC	Sociedad Ecuatoriana de Matematica
14th International Human Choice and Computers Conference https://hcc14.net	HCC	09/09-11/09 2020 Tokyo, JP	IFIP TC9
4th IFAC Workshop on Maintenance Engineering, Services and Technologies https://www.ifm.eng.cam.ac.uk/events/maintenance-in-the-digital-era/	AMEST 2020	10/09-11/09 2020 Cambridge, GB	IFAC
21st IFIP / Socolnet Working Conference on Virtual Enterprises http://www.pro-ve.org	PRO-VE 2020	14/09-16/09 2020 Valencia, ES	SOCOLNET - Society of Collaborative Networks
28th IFIP/IEEE International Conference on Very Large Scale Integration http://vlsi-soc.pe/	VLSI-SoC	05/10-07/10 2020 Salt Lake City, US	IEEE CASS; IEEE CEDA
IFIP Joint Working Conference on the Future of Digital Work: the Challenge of Inequality www.ifipjwc2020.org	ifipjwc2020	10/12-11/12 2020 Hyderabad, IN	IFIP WG8.2, WG9.1 and WG9.4
IFIP WG8.6 WORKING CONFERENCE 2020 https://www.iimtrichy.ac.in/ifip	IFIP WG8.6	18/12-19/12 2020 Tiruchirappalli, IN	IFIP WG8.6 / IFIP TC8

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