News

September 2016   http://www.ifip.org

WITFOR 2016 was a Success !!!

The IFIP World IT Forum (WITFOR) evolution into an academic event has been very successful. WITFOR 2016 attracted 175 participants from across Latin America and around the world. Participants had the opportunity of listening 29 presenta-

tions of academic papers and demos of applications focused on how ICT can be applied to achieve the United Nations Sustainable Development Goals. These

presentations were complemented by six keynotes that covered a wide variety of topics, ranging from prospects of socio-economic development in the digital era to the relevance of ICT for biodiversity.

The inauguration session, jointly held with the Second Session of the Conference on Science, Innovation and Information and Communications Technologies of the Economic Commission for Latin America and the Caribbean (ECLAC), was an excellent opportunity for integrating government authorities with academy, industry members and ICT associations.

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Mario Cimoli, Director of ECLAC's Production, Productivity and Management Division, highlighted that Latin American and Caribbean countries must accelerate their efforts to take advantage of the new wave of technological innovation.

From different presentations, it is clear that ICT represent an opportunity for developing nations for promoting innovation and improving productivity. But at the same time it has been highlighted that these countries should take decisive actions to prevent mass job losses as a result of the digital disruption, in which education play an important role.

Jointly organized by IFIP and the five universities of the National Council of Rectors of Costa Rica (CONARE), WITFOR 2016 is a successful example of team work.

WITFOR 2016 CONFERENCE REPORT
Costa Rica (San Jose) 12-14 September 2016

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BACKGROUND

The Botswana expansive School Transformation (BeST) Project was first launched under the auspices of the Education Commission of World Information Technology Forum (WITFOR 2005) held in Botswana (Gaborone). WITFOR investigates successful Information and Communication Technology (ICT) strategies in developing countries and examines different initiatives and projects on the effective, context sensitive development uses of ICT applications. WITFOR also helps to put ICT-enabled development initiatives on the agenda of different organizations, governmental bodies, and groups currently involved in ICT initiatives. The major theme of WITFOR 2016 Conference held in Costa Rica (San Jose) during 12-14th September, 2016 was *Information Communication Technologies (ICT) and Human Development problems*, with a sub-theme on *ICT and education*. The conference was an ideal opportunity to present some outcomes of the BeST Project, and yet my presentation at WITFOR 2016 was two-fold, (i.e. presented a paper entitled *Transformative Applications of ICT in Education: The Case of Botswana expansive School Transformation (BeST) project*, and also presented in a panel on digital equity focusing on the situation in Sub-Saharan Africa. The BeST project presentation fell within the *ICT and education* theme.

TRANSFORMATIVE APPLICATIONS OF ICT: THE CASE OF *BeST PROJECT*

The BeST Project used Activity Theory (AT) as the underpinning theory and Development Work Research (DWR) and Change Laboratory (CL) ethnography as the methodological frameworks of the project. Summary findings of the project activities planned and carried out at three (3) of the ten (10) selected pilot secondary schools were presented and published in a WITFOR 2016 Springer publication of selected conference proceedings. The CL process showed that focusing on the object and historical changes in the activity could disclose central developmental challenges and needs in the activity that the new technology could help to meet in the schools. The teachers' transformative agency could only sustain in an expanding collaboration between teachers and interventionists capable of helping them in solving practical ICT problems and developing the pedagogical use of the ICTs in their work. Other book, refereed journal, as well as conference proceed-

ings have been published on the work done by the BeST project. In view of the experience and work done under the auspices of the BeST Project, and discussed at WITFOR 2016, it seems that the process within the three (3) schools, and the establishment of objects of joint pedagogical development in them, could be a good first step for building such collaboration in all the ten (10) selected schools in Botswana. The BeST Project has therefore made a significant contribution that WITFOR could pursue further with other stake holders and soliciting funding to support the scaling-up of the project to more schools in Botswana and in Southern African Development Community (SADC) as was initially envisaged.

DIGITAL EQUITY PANEL

The panel of four (4) presented briefly on digital equity on selected continents (i. e. America, Europe and Africa) after some keynote remarks by the chairperson covering digital equity definitions, models and frameworks which were thereafter discussed extensively. Digital security, standards as well as general issues on the concept were also discussed within the context of the digital revolution being experienced world-wide and in relation to learning and for preparing for the future-regardless of socioeconomic status, physical disability, language, race, gender, or any other characteristics that have been linked with unequal treatment. The Networked Readiness Index (NRI), a part of World Economic Forum's Global Information Technology Report 2015, has scored nations on four counts of their readiness to exploit new digital technologies (i.e. 1) regulatory and business environment, 2) infrastructure, affordability, and skills, 3) usage by businesses, individuals and government, and 4) social and economic impact), and the top ten sub-Saharan digital nations, with Mauritius emerging in position one are as follows:

Sub-Saharan Africa: Top 10 countries harnessing information technology	
Networked Readiness Index 2015	Global rank*
Mauritius	45
Seychelles	74
South Africa	75
Rwanda	83
Kenya	86
Cape Verde	87
Ghana	101
Namibia	102
Botswana	104
Senegal	106

Source: World Economic Forum, 2015
*2015 rank out of 143 economies.
**The Index measures how economies use the opportunities offered by information and communications technologies for increased competitiveness and well-being.

CONCLUSION

Participation in the WITFOR 2016 conference provided an ample opportunity not only to dialogue and share experiences and concerns on the role of ICTs in HEIs, but also their transformative applications to education. The keynote presentations and parallel sessions on the conference provided opportunities for possible networking with experts as well as colleagues from most parts of the world. Most researchers, educators and policy makers from the region took the opportunity to attend WITFOR 2016 where issues pertaining to transformative uses of ICTs in cross cutting developmental issues involving human, environmental and economic development problems were discussed. New insights regarding the prevalence of the digital revolution as it affects education, and providing opportunity for research and community engagement being some of the key values upheld by Higher Education Institutions (HEIs) including the University of Botswana were sought.

I would like to express my sincere gratitude to both the International Federation for Information Processing (IFIP) and the University of Botswana for providing funding to cover all expenses required to attend WITFOR 2016. My attendance of the conference was an opportunity not only to experience the beauty of Costa Rica (San Jose) and its unique *Cura Puda* culture; but also the networking dinners and participation in the rigorous editing processing of accepted papers published by Springer. The editing as well as the submission processing of the papers was of world class standard. My gratitude also goes to Costa Ricans who extended a very warm welcomed to participants and the conference was such wonderful experience.___

IP3 News

International
Professional
Practice
Partnership

Transforming IT Professional Practice

From the Chair – Brenda Aynsley

ISACA is an organisation member of the IFIP IP3 Global Industry Council and I met with Ms Tara Wisniewski Managing Director, Advocacy and Public Affairs, ISACA HQ at an ACS Leaders Lunch in Adelaide where she spoke on "The Power and Promise of Female Leadership". Tara is ISACA's representative on IP3 and we welcome her to our ranks. Tara and Brenda are pictured left.

For detailed information about IP3 activities over the past year, please read our annual report at http://ip3interactive.net/mod/resource/view.php?id=346

I was proud to be advised that Moira de Roche, Stephen Ibaraki, and myself are recipients of the IFIP Silver Core award. We are very pleased that our work to promote professionalism has been to be so recognised with this prestigious award, and we thank IFIP for this.

IP3 upcoming meetings:
- Board and planning meetings in Sydney, Australia 27 - 28 November which all are invited to attend at their own expense (contact mderoche@ipthree.org for full agenda)
- Annual General meeting will be held on Monday 28 November at 16:00 local time. Those who can't attend will be connected remotely.
- Also planned:
    ◊ A site visit and tour of the Data Arena and some Interesting UTS Innovation at the University of Technology Sydney 29 November.
    ◊ IP3/ACS/Australia 3.0 Presidents and Ministers Forum 30 November at which IP3 is presenting a session "Does the Internet of Things, Algorithms and Artificial Intelligence of Everything promise Utopia?" This will include an IP3 Panel discussion: "If we are to succeed in making sure society is not led astray by the technology we seek to use, then we must begin and continue the conversation which identifies the problems, seeks acceptable solutions and provides for the eco-system and infrastructure to deliver on them".
    ◊ ACS annual symposium and ICT innovation and entrepreneurship awards "Reimagination" on 1 December 2016 http://reimagination16.acs.org.au/

We hope to welcome representatives from IFIP members as well as IP3 members to these sessions. Please advise attendance, and make sure you have accommodation booked.

GIC Report--Stephen Ibaraki GIC Founding Chair; Vice-chair IP3 Board (representing GIC and Strategic Relations)
As usual, Stephen has been extremely busy. His many external activities give him opportunities to position IFIP and IP3 to many diverse audiences. These are a selection of his many recent activities:

- Stephen is appointed co-chair of the ACM Practitioner Board in 2016 serving as board member since 2011. He is serving as past-chair with the ACM practitioner board professional development committee serving since 2008 and as chair since 2011. Stephen is founder and chair of the practitioner board marketing committee in 2016. Stephen nominated Mike Hinchey, IFIP President to the practitioner board and GIC Directors David O'Leary and Frits Bussemaker are nominated to the marketing committee. David also serves with the professional development committee. Nominations are extensively vet by the ACM before appointments.

- Stephen spoke and actively participated at UN/ITU WSIS in May. As a result of IP3 efforts led by Chair Aynsley and Deputy Chair de Roche, there was significant multi-level recognition of the value of IFIP including plenary speaking and ongoing engagements with the senior leadership of ITU: secretary general, division directors, deputies, heads of departments. From this work, Stephen has an interview in September with Director Dr. Chaesub Lee and Deputy Dr. Reinhard Scholl. There is a concerted effort by the ITU to ensure IFIP stays engaged at the highest levels and IFIP value is clearly recognized.

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- Mike Hinchey, IFIP President, GIC Director Frits Bussemaker, GIC Director Andy Chen are making significant contributions in participation for the Financial Services Roundtable (FSR) FinTech Ideas Festival (FIF). For example, Andy contributed to an article on Cybersecurity appearing in September. The FSR consists of 100 of the top 150 CEOs by market capitalization in the financial services sector representing 92.7 Trillion USD in managed assets and 1.2 Trillion USD in revenue. FIF is an invitation-only CEO-focused collaborative and intimate event in January 9-10 2017, looking at trends 5 and 10 years into the future. As of September more than 90 have registered with a cap of 120 to 160 with key participants including: Ajay Banga, CEO of MasterCard; Vint Cerf, Father of the Internet; Susan Desmond-Hellman, CEO of the Bill and Melinda Gates Foundation; Margaret Keane, CEO of Synchrony; Dean Kamen, Founder of FIRST and President of DEKA Research & Development; Aaron Levie, CEO of Box; Kevin Mandia, CEO of FireEye; Satya Nadella, CEO of Microsoft; Ginni Rometty, CEO of IBM; Shyam Sankar, President of Palantir; Charlie Scharf, CEO of VISA; John Stumpf, CEO of Wells Fargo; Michael Tipsord, CEO of State Farm; Jeff Weiner, CEO of LinkedIn; Tom Wilson, All-State
  As founding chairman of the FSR TAC (Technology Advisory Council) Stephen nominated Mike, Frits and Andy to the TAC.

- As an outcome from Stephen's disruptive innovations work, Stephen is chair moderating and speaking at 3 sessions at three conferences for the UN ITU. Stephen nominated IFIP President Mike Hinchey to speak at WTSA. Stephen also is featured in two articles with the ITU:

  ⇒ World Telecommunication Standardization Assembly 2016 (WTSA-16)- held every four years and defines the next period of study for ITU-T. WTSA-16 will take place in Yasmine Hammamet, Tunisia, from 25 October to 3 November 2016. [Speaking to delegates from 100 countries.]

  ⇒ ITU Kaleidoscope 2016 – ITU's flagship academia event which aims to increase the dialogue between experts working on the standardization of Information and Communication Technologies (ICTs) and academia. The event will take place from the 14 – 16 November.

  ITU Telecom World 2016 - a global platform for governments, corporates and small and medium enterprises (SMEs) to accelerate ICT innovation for economic growth and social good. ITU Telecom World 2016 will take place in Bangkok, Thailand, 14 - 17 November.

  Article with ITU: https://itu4u.wordpress.com/2016/09/13/could-technical-standards-for-artificial-intelligence-help-us-achieve-the-sustainable-development-goals/

  Article with ITU: https://itu4u.wordpress.com/2016/09/06/itu-partners-with-ibm-watsons-xprize-to-promote-ai-innovation/

- IFIP is now an official advocate partner of the IBM Watson AI XPRIZE-- http://www.xprize.org/ai. http://www.ifipnews.org/ifip-partners-xprize-ibm-watson-artificial-intelligence-ai-xprize/
  Stephen as official IBM Watson Artificial Intelligence XPRIZE Ambassador, facilitated this partnership by introducing IFIP President Leon Strous and President Mike Hinchey. Stephen is continuing to support IFIP in this partnership. There is an interview completed with Leon, Mike and XPRIZE AI head, Amir Banifatemi to appear in September. Moreover, Stephen arranged the hosting of the live video stream for the September IFIP AIAI conference where Amir will speak and take questions. GIC Director David O'Leary is providing support.

There are new interviews appearing with more than five channels including ACM, CIPS, NPA, IDG-IT World, IFIP IP3, and social media. Three notable are:

Martin Ford, Globally Renowned Writer, Best-selling Author, Keynote, Futurist http://stephenibaraki.com/acm/interviews/v0716/martin_ford_acm.html

Chat with Juergen Schmidhuber: Artificial Intelligence & Deep Learning - Now & Future http://stephenibaraki.com/acm/interviews/v0916/juergen_schmidhuber_acm.html

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Dr. Simon Moser, CEO, Top ICT Authority

http://stephenibaraki.com/acm/interviews/v0716/simon_moser_acm.html

Ken Salaets, Director Global Policy Information Technology Industry Council (ITI)

http://stephenibaraki.com/acm/interviews/v0616/ken_salaets_acm.html

Here are examples of interview channels:

CEOHP:

Since 2012, they are appearing with the CEOHP, Computing Educators Oral History Project, funded by the US National Science Foundation, amongst others:

http://www.southwestern.edu/departments/mathcompsci/OHProject/other-ohprojects.html

ACM:

http://stephenibaraki.com/acm/interviews/v0916/juergen_schmidhuber_acm.html

Bitly Link: http://bit.ly/2cphuoQ

Interviews all appearing in the ACM LEARNING CENTER. Here are interviews with notable leaders and past Turing Award winners in the ACM link:

 http://learning.acm.org/multimedia.cfm

SAC Chair – Adrian Schofield

Thanks to an introduction by Moira de Roche, Adrian Schofield attended the first National Workshop of the Tanzania ICT Commission, themed ICT Profession Development. The Commission is a multi-stakeholder organisation under the auspices of the Ministry of Works, Transport & Communication with the mission of facilitating the implementation of Tanzania's National ICT Policy. Senior officials among the more than 70 delegates included the Deputy Minister, the Permanent Secretary and the CEOs of the Tanzania Telecommunications Company, the ICT Commission and the Science & Technology Commission. Adrian's presentation covered the IP3 objectives and examined the processes of accrediting professional practitioner schemes. The delegates broke into work groups to address three key questions focused on moving towards the goal of recognised professionals. They are keen to join the IP3 requirements, and Adrian advised them on how they might organise to do so.

It's interesting to note that the IP3 team first met with representatives from Tanzania when we presented our first Thematic Workshop at WSIS 2012. Although it took a while, it is pleasing to note that there has been a positive outcome from this encounter.

IP3 at SaITE conference, Guimaraes, July 2016 (Moira de Roche)

I was pleased to present at this IFIP TC3 conference. In the presentation, I explored the role of educators in preparing ICT professionals, and how they can play a role once graduates enter the world of work. The session was well-attended, and I received positive feedback afterwards.

Thanks to Raymond Morel for his encouragement and support in getting me to the conference, as well as his input during the session.

IP3 hope to continue to collaborate with TC3 on matters of mutual interest.

IFIP Partners with XPRIZE in Support of IBM Watson Artificial Intelligence XPRIZE

IFIP has signed a formal Advocate Partnership Agreement with XPRIZE to leverage its extensive membership and relationship base in support of the new $5M IBM Watson Artificial Intelligence (AI) XPRIZE competition.

XPRIZE, the global leader in incentivized prize competitions, announced the new AI XPRIZE in February this year, to promote collaboration and exploration into ways that AI and human-machine interaction can help to solve the world's greatest challenges.

As an Advocate Partner, IFIP will promote the AI competition to the 500,000+ ICT professionals and researchers in its member societies, encouraging those with an interest in AI to participate in the four-year competition. IFIP will identify and propose judges and scientific advisory board members, including its own IFIP experts, and has agreed to engage its member community to find mentors and technical experts to assist the teams in refining and enhancing their submissions.

"We are very grateful to IFIP for partnering on this important advocate role for the IBM Watson AI XPRIZE," said Amir Banifatemi, prize lead for the IBM Watson AI XPRIZE." One of the goals of the competition is to promote wider collaboration and support from the AI community to help innovators create scalable solutions and audacious breakthroughs to address humanity's grandest challenges. This partnership is a big step toward our goal."

Registration for the competition opened in June with teams invited to declare their own goal and solution to the challenge. The competition will be held over four years, with annual milestone competitions in 2017, 2018 and 2019, and the top three finalists competing for the Grand Prize at TED 2020.

IFIP President, Leon Strous, said the professional body is delighted to be playing a role in support of the IBM Watson AI XPRIZE.

"AI has enormous potential not only to solve problems but also to offer new and better ways of engaging in activities ranging from business interactions and transactions to improving the delivery of education, health services, entertainment and more," he said.

"We look forward to working with XPRIZE to maximise awareness of the AI competition and to assist teams in creating positive outcomes for themselves and the broader community."

Registration for the AI XPRIZE must be submitted by the end of December 2016, with the first project milestones due for delivery in October 2017.

For more information, and to register to compete, visit **ai.xprize.org**.

IFIP TC13
Pioneer in Human-Computer Interaction Awards 2016

The International Federation for Information Processing Technical Committee on Human–Computer Interaction (IFIP TC13) is having the honour to announce the 2016 winners of the IFIP TC13 Pioneer in Human-Computer Interaction Awards. IFIP TC13 appoints pioneers to honour the greatest contributors to the development and growth of the field of human-computer interaction (HCI).

An IFIP TC13 Pioneer is one who, through active participation in IFIP Technical Committees or related IFIP groups, has made outstanding contributions to the educational, theoretical, technical, commercial or professional aspects of analysis, design, construction, evaluation and use of interactive systems.

An IFIP Pioneer has contributed in one or several of the four main elements below:

♦   IFIP involvement through TC13, working groups or SIGs or in the organization of the INTERACT conference.

♦   Publications (multiple full papers) at INTERACT and attending numerous INTERACT conferences.

♦   Significant research contribution (possibly with specific (new) application domains).

♦   A pioneer in the original meaning, either in the area of HCI or in a local area (region or country) in the world.

The 2016 Committee to consider the IFIP TC13 Pioneers awards comprised Paula Kotzé (South Africa, Past Pioneer, Committee Chair), Phillipe Palanque (France, Past Pioneer), Simone Barbosa (Brazil), Tom Gross (Germany) and Virpi Roto (Finland). The Committee considered thirteen nominations for the Award.

The Committee has unanimously decided to honour three candidates with the 2016 IFIP TC13 Pioneer Award:

•   Susanne Bødker (Denmark)

•   Jan Gulliksen (Sweden)

•   Alistair Sutcliffe (United Kingdom).

IFIP TC13 congratulates the 2016 Award winners for their fine work and pioneering achievements!

Commendation Summaries of the 2016 Awardees

Susanne Bødker, Denmark

Susanne Bødker is Professor in Department of Computer Science at the School of Communication and Culture - Participatory Information Technology, Aarhus University in Denmark. Prof Bødker is one of the pioneers in the field of cooperative and participatory design, and was a participant in the first UTO-PIA project that formed that tradition. She is currently pushing the third wave human-computer interaction(HCI) and has also made substantial contributions to computer supported cooperative work (CSCW). A substantial part of her work was disseminated through IFIP TC13 conferences, including INTER-ACT, as well as IFIP TC 9

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Jan Gulliksen, Sweden

Jan Gulliksen is Professor in Human-Computer Interaction (HCI) and Dean of the School of Computer Science and Communication at KTH Royal Institute of Technology in Stockholm, Sweden. Prof Gulliksen has been very active in identifying detailed design processes for user centered designs, and currently also focuses on public policy and e-government. He was a HCI pioneer in Scandinavian countries with an early involvement in the NordiCHI conference series. He was the Chair of IFIP TC13 for 6 years (2010 - 2016), previously served for 6 years as the Working Group Chair for IFIP WG 13.2 on Methodologies for User-Centered Systems Design. He has been the Swedish representative on IFIP TC13 for many years. He was the General Chair of INTERACT 2009 and had many publications at INTERACT conferences since 2001. He was awarded the IFIP Silver Core Award in 2007.

Alistair Sutcliffe, United Kingdom

Alistair Sutcliffe is Emeritus Professor of Systems Engineering and Director of the Centre for HCI Design, in the School of Informatics, University of Manchester, UK. Prof Sutcliffe is one of the pioneers in human-computer interaction (HCI) and is a leading authority on human factors in safety critical systems, requirements engineering and multimedia user interface design. He founded IFIP TC13 Working Group 13.2 on Methodologies for User-Centered Systems Design, where he contributed to organising working conferences and workshops. He also played a leading role as Workshop Chair in organising INTERACT 1999. He was awarded the IFIP Silver Core Award in 1998.

Past IFIP TC 13 Pioneer Awardees

- 2010: Brian Shackel (United Kingdom) and Liam Bannon (Ireland).

- 2013: Joëlle Coutaz (France), John Karat (USA), Gitte Lindgaard (Canada and Australia), Zhengjie Liu (China) and Gerrit van der Veer (Netherlands).

- 2014: Paula Kotzé (South Africa), Fabio Paternó (Italy) and Clarisse Sieckenius de Souza (Brazil).

- 2015: Julio Abascal (Spain), Philippe Palanque (France) and Annelise Mark Pejtersen (Denmark).

DRAGON-STAR[PLUS] MEETING successfully held in Beijing

On September 7, DRAGON-STAR[PLUS] MEETING successfully held in Jinma Hotel, Beijing, China. Prof. Daoliang Li, the Director of China-EU Center for Information & Communication Technologies in Agriculture (CICTA) and associate Prof. Zhenbo Li from China Agricultural University and representatives from Germany, Greece, Switzerland，Norway, Austria, France, Italy totally 27 person attended the meeting.

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The Head of International Cooperation, Praxi/FORTH Mr. Epaminondas Christofilopoulos sent the great thanks to the host of Prof. Daoliang Li and associate Prof. Zhenbo Li and gave sincerely welcome to every participants.

Partners from CSTEC, APRE, SPI, BSEAC, EUREL presented WP1 Status : H2020 and beyond: Supporting the European and Chinese Research community. Partners from FFG, CSTEC, BSEAC, KF, UNNC presented WP2 Status : NCP operation in China and promotion of collaboration opportunities in Europe and China. Parterners from BSEAC, SPI, SEZ, EUREL presented WP3 Status: Improving STI Framework Conditions. Phemonoe presented WP4 Status: Stakeholder Engagement & Communication. Partners from FORTH presented the WP5 Status: Management and Coordination.

Prof. Daoliang Li hope this meeting will effectively promote the cooperation between China and Europe and level playing field for researchers in both sides. After the meeting, all participants had dinner together and wish to meet again in the next year.

News from the ACM (Association for Computing Machinery)

ACM Europe Women's Group Hosts Third womENcourage Conference

"A ship in port is safe, but that is not what ships are for. Sail out to sea and do new things." This quote by Grace Hopper provided the inspiration for the third womENcourage conference, hosted in mid-September in Linz, Austria by the Association for Computing Machinery's women's committee in Europe (ACM-W Europe). The conference connects, inspires and encourages European women in computing, including students at all levels, researchers and early practitioners as well as senior professionals in the field.

More than 100 participants were inspired by talks on:

- Improving topical searches of video content (keynote by Lynda Hardman, Centrum Wiskunde & Informatica, Netherlands and Informatics Europe)
- Android development at Google (tech talk by Robin Bennett, Google)
- Programming language research and technical disruption (tech talk by Susan Eisenbach, Imperial College London)
- Cross-disciplinary modeling (keynote by Gerti Kappel, Technical University of Vienna)
- Enterpreneurship: the value of teams and social capital (industry talk by Natasa Milic-Frayling, University of Nottingham)

In a panel, "Promoters and Prohibitors for a Career in CS," former ACM President and current ACM Europe Council Chair Dame Wendy Hall (University of Southampton) led a discussion with panelists Toni Collis (University of Edinburgh), Becky Plummer (Bloomberg LP), Pearl Pu (École Polytechnique Fédérale de Lausanne) and Jane Richardson (Oracle). They reflected on the keynote speeches and tech talks, elaborating on careers for young researchers from various perspectives: the role of sponsors and mentors; hints on how to find promising research topics; guidelines for running impactful projects; and strategies for identifying and consequently avoiding risks and pitfalls.

You can view videos of these talks and the panel, as well as the Welcome and Opening, at https://www.youtube.com/playlist?list=PLn0nrSd4xjjbGe4YhVoaURZpEnBSL1la1

HED: Heidelberg Laureate Forum Provides Week of Networking and Inspiration for Young Researchers

The fourth Heidelberg Laureate Forum, which took place from September 18 to 23 in Heidelberg, Germany, provided an informal venue for 200 selected young researchers from over 50 countries to exchange ideas with 21 renowned laureates in mathematics and computer science. Recipients of the ACM A.M. Turing Award, the Abel Prize, the Fields Medal and the Nevanlinna Prize inspired the researchers in a week-long program of lectures, workshops, and social events.

Each year the HLF is highlighted by a Hot Topic. This year's topic had leading researchers and experts examining the current scientific trends in Artificial Intelligence and their applications, followed by a broader discussion on AI's impact on society with a panel that included Google Vice President and Chief Internet Evangelist and Turing Award recipient Vint Cerf.

The Turing laureates are always well represented at the HLF, and this year's roster of lecturers included Stephen A. Cook, William Kahan, Sir C. Antony Hoare, Joseph Sifakis, John E. Hopcroft, Leslie Lamport, Barbara Liskov, Raj Reddy, Ivan Sutherland, Richard E. Stearns, Robert Tarjan, and Frederick Brooks.

PhD students had an opportunity to present their work in a poster session, and participants were entertained in the evenings by city and museum tours.

The HLF, founded by the Klaus Tschira Foundation and the Heidelberg Institute for Theoretical Studies, is organized by the Heidelberg Laureate Forum Foundation and is supported by the Association for Computing Machinery (Turing Award), the International Mathematical Union (Fields Medal, Nevanlinna Prize), and the Norwegian Academy of Science and Letters (Abel Prize). The fifth HLF will take place September 24 to 29, 2017. Applications will be open this fall.

View photos and videos from HLF 2016

Scholarship Group Picture

Johannes Kepler University

Linz/Austria   12/13.09.2016

SEARCC News

SEARCC Conference 2016

The SEARCC Conference will bring together leaders from the technology industry, the wider business sector, the education and research communities and the political sphere to advance the conversation on entrepreneurialism, innovation and competitive advantage for the Asia Pacific region to create a vibrant and innovative technology sector able to take advantage of opportunities to prosper in the digital and knowledge economies.

The SEARCC Conference will feature international and Australian leaders that will provide practical know how, critical thinking and their views and opinions on how the Asia Pacific region can flourish and prosper in the digital future and knowledge economy.

The 2016 SEARCC Conference will be hosted by the ACS in conjunction with the Reimagination Thought Leaders Summit 2016 at The Star, 80 Pyrmont Street, Pyrmont on 1 December 2016.

SEARCC International Awards

Following the SEARCC Conference we will host a cocktail reception allowing our delegates, guests and leaders from business, government, education and research sectors to converge and share their learnings before we celebrate and honour World's best and Australia's best technology disruptors at the ACS Digital Disruptors and SEARCC International Awards gala dinner. The award finalists will be recognised and winners will be announced at this dinner.

SEARCC Executive Council Meeting

The next SEARCC Executive Council meeting will be held on 30 November 2016 in Sydney, preceding the SEARCC Conference on 1 December 2016.

Working Group 9.7 members gather around a bust of Claude Shannon after a tour of Bell Labs. Bell Labs Archivist Edward Eckert (far right) led the tour. Arthur Tatnall, Working Group 9.7 Chair, is immediately to the left of the bust; standing to his left are Barbara Tatnall, secretary, and Christopher Leslie, vice chair. Third from the right is former IFIP treasurer Chris Avaram and fifth from right is IFIP Historian Roger Johnson.

International Histories

Members of Working Group 9.7, History of Computing, met in New York City in May for a conference on the theme "International Communities of Invention and Innovation." The conference's call for papers took as a starting point the premise that computers were developed by individuals aware of the international scientific community, encouraging papers that eschew the typical U.S.-centric narrative. This elicited a robust response of variations on that theme.

"In a conference with a global perspective like this one, it was particularly appropriate that it was delivered by a global organization, the International Federation for Information Processing," said Working Group 9.7 Chair Arthur Tatnall. "Invention and innovation know no international boundaries, and this conference focused on how this can be seen in much of the history of computing," he continued.
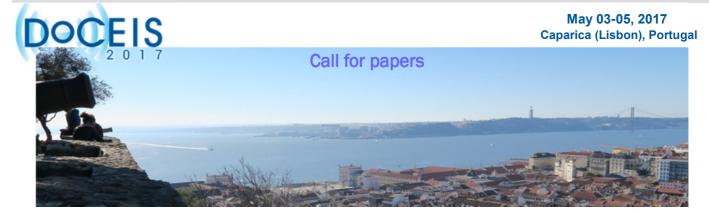
The academic portion of the conference consisted of fourteen papers and a roundtable discussion. Participants hailed from seven countries and consisted of about one-half historians and one-half computing, engineering, and IT professionals. The conference featured a keynote presentation by Nicole Starosielski, author of the book *The Undersea Network*, entitled "Submerged Histories of Internet Infrastructure." Springer will publish an edited proceedings volume of selected papers in due course.

Conference members made two field trips as a group. First, they travelled to Murray Hill, New Jersey, for a tour of Bell Labs led by archivist Edward Eckert. Here, they viewed the world's first transistor, the backup copy of the first TELSTAR satellite, and the lab where UNIX was developed. In addition, they visited Google's New York headquarters at 111 Eighth Avenue in Manhattan. The home of Google's second-largest office complex, the working group saw Google's vaunted open office concept. This building is also home to New York's second largest collocation center, sometimes called a carrier hotel, where Internet companies and telecom networks connect. The conference dinner was graciously hosted by NYU's Torch Club after the tour of Google.

The conference was organized by WG 9.7 vice chair Christopher Leslie at his home institution, the New York University Tandon School of Engineering. "Working Group 9.7 benefits from a membership that consists of technical professionals as well as humanities scholars," Leslie said. "It is not often that a computer engineer and an architectural historian find themselves engaged in the kind of multidisciplinary conversation one finds at a 9.7 conference," he continued. Leslie's Brooklyn, N.Y., school was once a separate university founded in 1854. In 2014, what was then known as Polytechnic University merged with New York University, and the school changed its name to Tandon School of Engineering in 2015 to honor of a generous donation from Chandrika and Ranjan Tandon.

Members of the working group said they were surprised that the conference, located in a major metropolitan area, was both safe and affordable. Leslie was able to arrange low-cost accommodation at Othmer Residence Hall, adjacent to the School of Engineering. Members quickly took to the city's subway system and regional transportation to take advantage of local sites such as the Statue of Liberty, Broadway shows, museums, the Cloisters, the Thomas Edison National Park, among others, after conference business was concluded.

DoCEIS 2017

May 03-05, 2017
Caparica (Lisbon), Portugal

Call for papers

8th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems

The 8th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (**DoCEIS'17**) will reflect the growing interests in research development and application of **Smart Systems**. Rapid evolution in Smart Sensors, Actuators, and Embedded Intelligence Technology and its seamless integration into multiple System Architecture and Platforms has revolutionized the technological world, and even the way we live, since the last decade. The pervasive nature of this technology has enabled rapid permeation into all facets and levels of engineering disciplines and has earned immense attention and focus within the academic circles and research communities worldwide. Smart Systems are undeniably, the technology of the future, with unparalleled possibilities, hence the need to further explore and exploit its prospects.

DoCEIS'17 therefore seeks to present an international and professional platform where Doctorial Students, Researchers and Academicians whose scope of work entails the design, application and adaptation of Smart Systems in relation to Collaborative Systems, Sensing Technologies, Computer Networks, IoT/CPS, Industrial Systems, Energy Grid, Smart Objects and General Management of all aspects of Technology, that focus on Smart Systems, can meet to merge ideas.

The objective of the conference is to share research findings and as well brainstorm on the endless possibilities of Smart Systems, in order to curve a clear, distinctive and well defined pathway for future work. This approach can change the way engineering systems are designed while leading to exciting challenges for researchers and industrial practitioners. Therefore, prospective contributors to **DoCEIS'17** are challenged to identify in which ways their research topics can contribute to or benefit from the research theme and are encouraged to participate in this conference.

Prospective authors of research papers are invited to submit their manuscripts reporting original work, in any of the scientific areas of the conference. Papers describing advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged. Nevertheless, each paper must make a clear link to the main theme of the conference, including a section describing that link.

Following the successful previous editions, proceedings are expected to be published by Springer, IFIP AICT series (indexed in Web of Science, SCOPUS and DBLP). Best papers will be considered for possible inclusion in a special journal issue.

There will also be poster discussion sessions regarding thesis plans. These sessions are designed in order to provide early feedback to PhD candidates in the initial phase of their studies. For PhD theses recently finished (during the last year), a special type of submissions is invited.

Important Dates
    Submission of abstracts: 10 Nov 2016
    Submission of full papers: 8 Dec 2016
    Notification of authors: 12 Jan 2017
Note: research paper selection will be based on full text, double blind review. However, prospective authors should submit a short abstract in advance, in order to check if the proposed topic fits within the conference scope.

Technical co-sponsors:
    SOCOLNET – Society of Collaborative Networks
    IFIP WG 5.5
    IEEE Industrial Electronics Society

Further information: **http://sites.uninova.pt/doceis**

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

17th IFIP Working Conference on Virtual Enterprises http://www.pro-ve.org	**PRO-VE 2016**	**03/10-05/10 2016 Porto, PT**	**SOCOLNET**
Dewald Roode Information Security Research Workshop (IFIP WG8.11/WG11.13) http://ifip.byu.edu/	**DRW2016**	**07/10-08/10 2016 Albuquerque, US**	**IFIP WG8.11 / IFIP TC8**
International Conference on Service Oriented Computing http://cs.adelaide.edu.au/~icsoc2016/	**ICSOC**	**10/10-13/10 2016 Banff, CA**	**IFIP WG2.14 / IFIP TC2**
International Conference on Testing Software and Systems http://ictss2016.ist.tugraz.at/	**ICTSS**	**17/10-19/10 2016 Graz, AT**	**IFIP**
IFAC/IFIP Workshop on Control & Computers http://woco2016.upv.es/	**WOCO**	**18/10-20/10 2016 VALENCIA, ES**	**IFAC / IFIP WG10.2 / IFIP TC10**
3rd IFAC Workshop on Advanced Maintenance Engineering, Service and Technology http://ifac-amest16.com/	**AMEST 2016**	**19/10-21/10 2016 Biarritz, FR**	**IFAC / ESRA / GdR MACS**
Workshop on Enterprise Interoperability, Integration and Networking http://otmconferences.org	**EI2N**	**26/10-27/10 2016 Rodos, GR**	
German-Austrian-Iranian Workshop on Digital Security and Privacy posegga@sec.uni-passau.de	**GAI-SecPriv**	**29/10-30/10 2016 Teheran, IR**	**IFIP TC11**
12th International Conference on Network and Service Management http://www.cnsm-conf.org/2016/	**CNSM 2016**	**31/10-04/11 2016 Montreal, CA**	**IEEE / IFIP**
9th IFIP WG 8.1 Working Conference on the Practice of Enterprose Modelling http://www.his.se/poem2016/	**PoEM**	**08/11-10/11 2016 Skövde, SE**	**IFIP WG8.1 / IFIP TC8**
First IFIP Conference on Information Technology in Disaster Risk Reduction http://itdrr.unwe.bg	**ITDRR-2016**	**16/11-18/11 2016 Sofia, BG**	**IFIP TC5 / IFIP TC11**
7th International Conference on Network of the Future http://network-of-the-future.org	**NoF`2016**	**16/11-18/11 2016 Búzios, BR**	**Technically co-sponsored by IEEE Comag Society**
Performance Evaluation and Modeling in Wired and Wireless Networks http://sites.google.com/site/pemwn2016/	**PEMWN 2016**	**22/11-24/11 2016 Paris, FR**	**Inria, Paris; France and Conservatoire National des Arts et Métiers, Paris, France**
International Conference on Application of Information and Communication Technology and Statistics in Economy and Education	**ICAICTSEE 2016**	**02/12-03/12 2016 Sofia, BG**	**IFIP TC5**
THE 10TH MULTI-DISCIPLINARY INTERNATIONAL WORKSHOP ON ARTIFICIAL INTELLIGENCE https://khamreang.msu.ac.th/miwai16/	**MIWAI 2016**	**07/12-09/12 2016 Chiang Mai, TH**	**IFIP TC12**
IFIP 8.2 Working Conference Dublin 2016 http://ifip82dublin.weebly.com	**IFIP 8.2 Dublin**	**09/12-10/12 2016 Dublin, IE**	**IFIP WG8.2 / IFIP TC8**
4th International Workshop on the Changing Nature of Work: The Impact of Digital Innovation on Work https://sites.google.com/site/workshopcnow/home/work	**CNoW2016**	**11/12-11/12 2016 Dublin, IE**	**IFIP WG9.1 / IFIP TC9**
International Conference on Research and Practical Issues of Enterprise Information Systems http://webcampus.ifs.tuwien.ac.at/confenis2016	**CONFENIS 2016**	**13/12-14/12 2016 Vienna, AT**	**IFIP WG8.9 / IFIP TC8**

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

Thirty-sixth SGAI International Conference on Artificial Intelligence http://bcs-sgai.org/ai2016	AI-2016	13/12-15/12 2016 Cambridge, GB	IFIP TC12
SIXTH INTERNATIONAL SYMPOSIUM ON DATA-DRIVEN PROCESS DISCOVERY AND ANALYSIS http://simpda2016.di.unimi.it paolo.ceravolo@unimi.it	SIMPDA 2016	14/12-16/12 2016 Graz, AT	University of Vienna / Graz University of Technologies
Smart Cloud Network and Systems http://www.scns-conference.org	SCNS	19/12-21/12 2016 Dubai, AE	IEEE / IFIP
Wireless On-demand Network systems and Services http://2017.wons-conference.org	WONS	21/02-24/02 2017 Jackson, US	IFIP WG6.3 / IFIP TC6
20th Innovations in Cloud, Internet and Networks http://www.icin.co.uk	ICIN	07/03-09/03 2017 Paris, FR	IFIP WG6.2 / IFIP TC6
Wireless Days 2017 http://www.wireless-days.com	WD	29/03-31/03 2017 Porto, PT	Faculdade de Engenharia da Universidade do Porto (FEUP)
Fundamentals of Software Engineering http://fsen.ir/2017/	FSEN 2017	26/04-28/04 2017 Tehran, IR	IFIP WG2.2 / IFIP TC2
Doctoral Conference on Computing, Electrical and Industrial Systems http://sites.uninova.pt/doceis/	DoCEIS`17	03/05-05/05 2017 Caparica (Lisbon), PT	SOCOLNET - Society of Collaborative Networks (Main Sponsor) / IFIP WG5.5
International Symposium on Environmental Software Systems 2017 http://www.isses2017.org	ISESS 2017	10/05-12/05 2017 Zadar, AT	IFIP WG5.11 / IFIP TC5
15th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks http://www.wi-opt.org	WiOpt	15/05-19/05 2017 Paris, FR	IFIP WG6.3 / IFIP TC6
The International Conference on the Social Implications of Computers in Developing Countries http://2017.ifipwg94.net	IFIP WG 9.4 2017	22/05-24/05 2017 Yogyakarta, ID	Sanata Dharma University / IFIP WG 9.4
ACM SIGCHI Symposium on Engineering Interactive Computing Systems http://eics.acm.org/2017	EICS 2017	26/06-29/06 2017 Lisbon, PT	NOVA University of Lisbon / IFIP
World Conference on Computers in Education 2017 http://wcce2017.com	WCCE 2017	03/07-06/07 2017 Dublin, IE	IFIP
28 th IFIP TC7 Conference 2017 on System Modelling and Optimization http://ifip17.iam.metu.edu.tr	IFIP07METU	17/07-21/07 2017 Ankara, TR	IFIP TC7
EPIA Conference on Artificial Intelligence http://www.fe.up.pt/epia2017/	EPIA 2017	05/09-08/09 2017 Porto, PT	APPIA / IFIP TC12
INTERACT 2017 http://interact2017.org	INTERACT 2017	27/09-29/09 2017 Mumbai, IN	IFIP TC13
The 16th IFIP Conference on e-Business, e-Services and e-Society (I3E 2017) http://www.iceg.net	I3E2017	23/11-25/11 2017 New Delhi, IN	IFIP WG6.11 / IFIP TC6