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News

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WORLD INFORMATION TECHNOLOGY FORUM (WITFOR) 2016

(Status report from Gabriela Marin Raventos)

The IFIP World Information Technology Forum WITFOR 2016 taking place in San Juan, Costa Rica at September 12th-14th, 2016 has received submissions with authors from 23 different countries spread across the entire world. It has however a clear concentration in Latin America (48,86%), followed by Europe (24,61%), North America (10,98%), Asia (10,23%), Africa (4,55%) and Oceania (0,76%). With respect to the papers per country (considering the nationality of all authors we find: Costa Rica (15), USA (3,33), Spain (3) Venezuela (3), Canada (2), Arab Emirates (1,5), Mexico (1,5), Denmark (1,33), 1 coming from Austria, Botswana, India, Italy, Lithuania, Macao, Peru, Singapore, South Africa, Sweden, United Kingdom, Chile, France, Guatemala and Switzerland (0,5) and Australia (0,33). These results (more than one third of the papers involving Costa Rican authors) put in evidence the interest of the organizing country (Costa Rica) for showing its problems related to the conference topics and how the people of this country have studied and solved their own problems. Extending this interest to the continent in which the conference will be held, we find that close to half of the papers come from Latin America. The rest of continents with developing countries (Asia and Africa) bring around 15% of the papers. Globally we can say that approximately two thirds of paper authors are from developing countries and one third from developed ones. This is a clear proof of the interest of this conference devoted to tackle the problems of developing countries that have shown their interest in explaining their problems and the solutions they have applied for solving them and how developed countries can cooperate in finding solution to the developing countries problems.

With respect to the global topics of WITFOR we find that

- ◊ ICT and cross-cutting development issues, involving human, environmental and economic development problems appears 20 times, all of them in first position or alone
- ◊ ICT and human development problems appears 22 times, of them 14 in the first position or alone and 8 as complementary topic
- ◊ ICT and environmental problems appears 7 times, of them 4 in the first position or alone and 3 as complementary topic
- ◊ ICT and economic development problems appears 11 times, of them 6 in the first position or alone and 5 as complementary topic

This proves that all the chosen topics have found enough interest among the scientists, engineers and researchers view the number of references to each topic. Also, the number of selections coming from developing countries proof that they are clearly related to the problems existing in developing countries.

Another aspect to remark is the quite reduced number of authors per paper (in average 2,21 per paper) that put in evidence that it is reasonable to think that all authors have actively participated in the research exposed in the submitted paper. Moreover, it also may indicate that most research groups are small and that there is room to invite collaborators from abroad. We hope that WITFOR 2016 may become the natural setting to foster the creation of international and interdisciplinary research groups.

Gabriela Marín Raventós

The Austrian Computer Society (OCG) fosters informatic basic knowledge to young people

In the last years OCG has established several national cooperations with stakeholders. One of the last projects aimed to enable children in more than 50 Viennese primary schools with the basics in informatic concepts by teaching them computer science unplugged. In total more than 1000 children and 50 teachers have participated in these workshops.

Currently OCG has submitted a proposal within the European Interreg program which will concentrate to enable knowledge of robotics and intelligent systems for schools. The lead partner is the University of Technology in Graz, Austria, which has an outstanding reputation in the field of robotics. The other consortium consists of the Hungarian computer society, the John von Neumann society, as well as the University of Györ and the college of education in Burgenland, Austria.

IFIP Summer School on Privacy and Identity Management Call for Extended Abstracts

The 11th International IFIP Summer School on Privacy and Identity Management has sent out its Call for Papers to young researchers and career starters to submit their extended abstracts as part of the application to attend the school.
To be hosted by the University of Karlstad, its Department of Computer Science and its Privacy and Security Group, and supported by IFIP's Technical Committee on ICT and Society (TC9), the summer school will consider the latest developments and issues around privacy challenges globally. Currently, this is a particularly hot topic.
The deadline for abstracts to be submitted is 22 April 2016 and the summer school will take place on 21-26 August 2016 in Karlstad, Värmland, Sweden.
IFIP Summer Schools take a holistic approach to society and technology, supporting interdisciplinary exchange through keynote and plenary lectures, tutorials, workshops, and research paper presentations. In particular, the committee welcomes participants' contributions that combine technical, legal, regulatory, socio-economic, social or societal, political, ethical, anthropological, philosophical, or psychological perspectives. The interdisciplinary character of the work is fundamental to the school.
The school has a particular focus on involving students and on encouraging the publication of high-quality, thorough research papers by students/young researchers. The school series has a long history of producing Springer-published books in which most of the chapters are written by young researchers (e.g., http://www.springer.com/us/book/9783319186207). The 2015 school issue will be out in time for the 2016 school.
To this end, the school runs a two-phase review process for submitted papers. In the first phase submitted papers (short versions) are reviewed and selected for presentation at the school. After the school, these papers can be revised (so that they can benefit from the discussion that occurred at the school) and are then reviewed again for inclusion in the school's proceedings which will be published by Springer.
For more information, visit http://www.ifip-summerschool.org/

Karlstad University

IFIP Collaborates with the International Baccalaureate

The International Baccalaureate (IB) Diploma Programme is maintaining the currency of a key technology-related subject through an on-going collaboration with IFIP's Technical Committee 9 (TC9), which focuses on Computers and Society.

The Information Technology in a Global Society (ITGS) subject forms part of the two year Diploma Programme offered to students aged 16 – 19 years old. ITGS is the only pre-university IT course that focuses on individuals and societies rather than on the technology itself.

ITGS encompasses three integrated strands:

Social and ethical significance – a discussion of social and ethical considerations related to IT developments;
Application to specified scenarios – which uses scenarios to address IT developments in the specified themes; and
IT systems – which explores the terminology, concepts and tools relating to IT developments.

With an ambitious mission to create peace in the world through education, the IB supports around 80,000 students studying the Diploma Programme in over 100 countries, of which around 4,000 study the ITGS course.

Since technology is developing at a rapid rate, maintaining currency and relevance is a core challenge for the ITGS Subject Manager, Richard Taylor, but he said the developing relationship with IFIP facilitates this work.

"I first met the Chair of IFIP TC9, Diane Whitehouse, at a TC9 Human Choice and Computers Conference and we stayed in touch," said Taylor. "Diane has been great and really welcomed me into the fold. Furthermore, the contact with this committee has offered me opportunities to present papers and work on IFIP projects.

"As you can imagine, any subject that looks at the relationship between information and communication technologies and individuals and societies is moving really fast – having this contact with IFIP helps the IB maintain the contemporary nature of this subject. IFIP supports me by giving me an opportunity to meet with people who are at the cutting edge of the subject in higher education and industry," he said.

Mr Taylor attends an IFIP event each year. For example, the next Human Choice and Computers conference will be held in Salford, UK in September 2016. As a result, he has been invited to assist on the organising committee for the WG9.2 workshop to be held in Barcelona next month. He has also presented a paper on how schools can empower their students to make informed decisions about their use of technology at ETHICOMP, the ethical computing conference in the UK last year, and has previously contributed a chapter to a book on the *History of Computing*.

While the ITGS curriculum is reviewed every seven years, students use an annually issued research-based case study to investigate an emerging area of technology. "In 2015, the projects looked at Big Data while this year the students are studying Smart Homes and next year they'll be focusing on Wearables," he explained.

"By participating in IFIP, surrounding myself with people who are extremely knowledgeable in these areas and listening to what they have to say, my thinking has evolved. Attending IFIP events also gives me an opportunity to cross check what the IB teaches against the thinking of experts. It's very reassuring to hear a conference speaker confirm that what we've written in a Big Data case study is correct."

Mr Taylor said the ITGS subject differs from standard IT subjects taught in schools because it focuses on the ethical use of technology. "We're preparing students for life and helping them to understand the potential consequences of decisions they make. TC9, and particularly its Working Group 9.2, have become invaluable in helping me keep the course current and ensure that IB teachers are presenting relevant and meaningful material to achieve our goals," he said.

IP3 News

International Professional Practice Partnership
Transforming IT Professional Practice

IP3 Chair report from Brenda Aynsley

Following on from my illness which was diagnosed last August it's been a period of focus on my health more than being outwardly engaged with those issues about which I am so passionate. However, I have tried to remain engaged in a 'watching brief' kind of way to ensure that as my health allows I can pick up the reins once again.

Issues such as trustworthy computing and the application of professionalism in the practice of ICT as exemplified in the "Dieselgate" scandal. This is a typical situation where there was clearly a breach of trust between management and employees and the company and their customers.

We have for years said we are a young profession, and this is true but we understand so much better the impact we as professionals and practitioners have on the ICT products and services that so pervasively support the economies and societies of the world. It is no excuse to offer the defence of "I was only following orders" - it didn't work following WWII and it should not work today!

I will be participating in WSIS once again this year and I hope some of our readers will plan to be in Geneva in the first week of May to share their wisdom and experience and learn about the early progress in developing strategies for delivering on the Sustainable Development Goals (https://sustainabledevelopment.un.org/topics/sustainabledevelopmentgoals) agreed by the UN in late 2015.

IFIP IP3 plan to develop a number of tools and supports for those professional societies that wish to offer their professional schemes for international accreditation. Adrian Schofield, Chair SAC, has determined that it is best to wait for an accreditation visit with a society in a non-English speaking country, to ensure that language issues are dealt with. IP3 will also undertake assessment of schemes being offered for accreditation in the next 12 to 15 months. We expect to report that several more countries are able to provide mutual recognition for their ICT professionals enabling easier movement around the globe which will allow economies to better address their specific digital skills shortfalls which are expected to be extensive and enduring by middle 2017.

Please join in or at least follow our journey this year.

Deputy Chair report from Moira de Roche

We are pleased to report that the IP3 chair, Brenda Aynsley, is recovering well from her illness. She is currently undergoing rehabilitation therapy. She handed over the reins of ACS President to Anthony Wong in January after his election in November. IP3 wishes Anthony well in his term as President.

Brenda will be part of the team attending WSIS at the beginning of May, which I am sure will be the first event of her usual busy schedule promoting IP3.

Anthony delivered the IP3 report to the IFIP Board in Tokyo. We thank him for his efforts in compiling the report, and presenting the highlights.

I am pleased to report that IPS will be holding a symposium at SaITE 2016. It is my strong belief that "growing" ICT professionals needs to start while they are still students. The Education community also have a role to play in supporting ICT employees as they develop their careers.

Report from Stephen Ibaraki, Vice-chair (GIC and Strategic Relations)

As usual, Stephen has been extremely busy. His many activities give him opportunities to position IFIP and IP3 to many diverse audiences. These are a selection of his many recent activities:

- Invited by the producer to participate and support the largest TEDx every produced, TEDxLA held at the Dolby Theatre in LA USA. Stephen is working to build recognition for IFIP and help the IFIP community and experts to be engaged.
- Invited as advisor to the Financial Services Roundtable (FSR) FinTech Ideas Festival (FIF) and as founder of the FSR advisory council (Stephen is also invited as chair). He is also invited to speak/participate at the FSR FIF summit in 2017. The FSR consists of 100 of the top 150 CEOs by market capitalization in the financial services sector. In his capacity he has arranged Mike Hinchey IFIP president-elect, Frits Bussemaker GIC Vice-Chair, Andy Chen PEAB Chair and VP IEEE-CS, to participate along with others in the IFIP community.
- Appointed as advisor to Digital Africa and as founder of the advisory board (Stephen is also invited as chair),

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and invited to speak and participate at the summit in 2016 and continuing. In his capacity he is working to help the IFIP community and experts be engaged.

Working to support the IEEE Computer Society to connect again with IFIP and IP3 including coordinating discussions with IFIP leadership and participating at IFIP/IP3 events/meetings.

After his invited participation in July, September and at the Dec 2015 United Nations GA and ITU WSIS Review, he was able to secure interest from the ITU leadership in IFIP WITFOR where ITU has made application to speak. The importance of professionalism was also noted by the session chair and separately by the UN President in their summaries.

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

Interview with **Moira de Roche**, see Moira de Roche, Outstanding Multi-awarded Serial Social Entrepreneur and Senior Global Executive

Interview with **Mike Hinchey**, see Mike Hinchey, Globally Renowned Researcher and IFIP President

Interview with **Chris Howard**, see Chris Howard, Top Global Engineer Entrepreneur Passionate About Transforming the World

Interview with **Gisèle Yasmeen**, see Gisèle Yasmeen, Globally Engaged Researcher, Speaker, Executive and Senior Fellow UBC Institute of Asian Research

Interview with **Thomas A. Limoncelli**, see Thomas A. Limoncelli, Internationally Recognized Author, Speaker and System Administrator

Interview with **Elim Kay andd David Cheng**, see David Cheng and Elim Kay sharing their entrepreneur innovation success

Interview with **Bryan Johnson**, see Bryan Johnson Sharing Entrepreneur Innovation Success

Interview with **Raghu Rai**, see Raghu Rai, Top Young Entrepreneur Sharing Success

Interview with **Ingemar Flores**, see Ingemar Flores, co-founder Lockheed Martin Shark Tank® Organization, Top International Software Engineer and Innovator

Interview with **Robin Pimentel**, see Robin Pimentel: International Engineer, Tech Executive, Entrepreneur, Investor

Interview with **Anne Miroux**, see Anne Miroux, Director, Division on Technology and Trade Logistics, Head of the CSTD Secretariat UNCTAD

IFIP IP3 at WSIS

In addition to IFIP Policy statements delivered at the plenary, IP3 will once again hold a Thematic Workshop at WSIS in Geneva 2 to 6 May. The workshop is titled, "The contribution IFIP IP3 makes to WSIS Sustainable Development Goals, with an emphasis on providing trustworthy ICT infrastructure and services". The panel will consider how a professional ICT workforce can ensure delivery of related SDGs, and why equal emphasis needs to be placed on the supply-side of ICT as on the demand-side (user communities). The workshop will take place on 2 May from 11h00 to 13h00. We encourage any of the IFIP community who will be in Geneva to attend the workshop, and others to attend remotely. Brenda Aynsley, Stephen Ibaraki, and Moira de Roche will be representing IP3.

Thanks must go to Raymond Morel, who has attended several meetings at ITU regarding WSIS, and has lobbied to ensure that IFIP bodies IP3, Digital Equity and ISES are afforded the opportunity to hold workshops. He has also made sure that we are fully acquainted with the requirements from ITU for the WSIS event.

News from Europe

The e-CF building blocks are illustrated in this cartoon.

The building blocks were (re)confirmed as the essential elements of a framework.

Jos Timmermans (NGI/VRI IP3 representative and IP3 board member) attended the 'Towards a European Framework for the ICT Profession' workshop on 4 February 2016 as IFIP IP3 representative Main purpose of the workshop was to address the following questions:

- Which used cases can be used to promote e-CF.
- How can/should e-CF be deployed?
- How to deploy e-CF successfully and determine which countries can be used to deploy e-CF first

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The plan for the coming year:

Jos also attended a joint workshop of the SFIA Foundation and the European Commission in London on 2 March, as an IFIP IP3 rep invited to participate. On both occasions he took the opportunity to meet with Andre Richer.

The meeting on 2 March second:

The key aspects of e-CF (the building blocks) were discussed in the morning.

Start of the afternoon session was about the topic, "Moving towards closer collaboration between e-CF and SFIA. The conclusion was ideally it would be best for professionals and the industry to have one framework, however it is not realistic to expect this to happen in the short term.

The participants agreed that a workgroup (consisting of e-CF and SFIA experts) established to determine how the frameworks should be connected. IFIP/IP3 invited to participate in the workgroup.

As a result of the last workshop Jos is, as an IFIP/IP3 board member, invited to participate in the SFIA council meetings, the first will be planned shortly.

Thinking about Ethics

Juerg Gutknecht, President of the Swiss Informatics Society (SI), took time out of his busy schedule whilst he was visiting Cape Town, South Africa, to meet with Adrian Schofield (Vice-chair SAC) and Moira de Roche to explore what SI needs to do to prepare for IP3 accreditation.

They also discussed the significance of ethical conduct in the context of systems development and how to react in the face of an order from a superior that they knew was unethical and perhaps illegal, in situations such as the VW "Dieselgate" scandal. This tip from Harvard Business Review provides advice for anyone who finds themselves in this situation:

What to Do If Your Boss Asks You to Break the Rules

If your boss asks you to do something unethical, immoral, or even illegal, how do you respond? The first step should be to appeal to your boss's self-interest — it's possible that he's unaware of the implications of what he's suggesting. Explore the request, framing it in terms of the potential costs and implications *for him* to test the waters. This also signals your discomfort and gives him a way to quietly withdraw his request without losing face. If that doesn't work, it's best to just say no. If that still doesn't work, try speaking to your boss's boss, an ombudsman, or human resources. It can help to gather allies, organizing several people to go to a manager together to express concerns. In a worst-case scenario, you may need to consider taking direct legal action, or blowing the whistle *outside* your company. Adapted from "What to Do If Your Boss Asks You to Break the Rules," by Peter T. Coleman and Robert Ferguson

You might also consider speaking with your professional society to seek their guidance in such situations.

Report compiled by Moira de Roche, editor@ipthree.org

Implications of ICT for Work-Life Boundaries

by Dr Petros Chamakiotis

Lately, there has been a lot of emphasis on the degree to which information and communication technologies (ICTs) — in particular smartphones and the issue of constant connectivity that these afford — are affecting work-life boundaries. We recently saw France discussing new legislation about employees retaining the right to disconnect from work once they leave the office (Amiel and Petroff, 2016). Skinner (2016) succinctly argues that rather than being able to work "anywhere, anytime", we have winded up working "everywhere, all the time". On the other hand, scholars have begun to investigate the issue of constant connectivity (e.g. Mazmanian, 2013) and work-life boundaries (e.g. Sayah, 2013), highlighting some of its implications for employee wellbeing and stress (e.g. Nixon and Spector, 2014).

These developments raise fascinating questions that need addressing. For instance, whose responsibility is it to ensure that employees are not overwhelmed by the assumption that we have to be always online? What is the role of organizations in this? Is being constantly online the tradeoff for being able to work flexibly?

My colleagues — Prof Gillian Symon, Dr Helen Roby, Dr Rebecca Whiting — and I shed light on these issues through an innovative research project entitled Digital Brain Switch (DBS) which explored how ICTs influence our transitions across work-life boundaries. Funded by the Engineering and Physical Sciences Research Council (EPSRC; ref: EP/K025201/1), our team collected video diaries and data from in-depth interviews with 45 UK-based individuals from different walks of life (including social entrepreneurs, office workers, and university students). Our findings highlight the need to be able to switch off as well as some of the implications of our Digi Lives. We discuss these findings in two recent videos

Video 1 Thumbnail: https://www.youtube.com/watch?v=Ima1HsT8QYA

Video 2 Thumbnail: https://www.youtube.com/watch?v=7w-huJ4Z544

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Author's Bio

Dr Petros Chamakiotis is a Lecturer in Information Systems in the School of Business, Management and Economics at the University of Sussex, UK; and the Secretary of the IFIP Working Group 9.5 on Virtuality & Society. His research interests include: virtual teams, connectivity, leadership, creativity, innovation, work-life boundaries, and learning. Petros earned his PhD from the University of Bath, UK, with the support of an EPSRC scholarship. Prior to becoming an academic, he held junior management positions in Madrid, Spain.

Ukrainian Student Olympiad

23 - 24 March 2016 at the Kharkiv National University of Radio Electronics for the eighth time the II stage of Ukrainian Student Olympiad on specialty "Computer Science" was held. Olympiad participants were greeted by the Acting Rector of the University Eduard Rubin, dean of the Faculty of Computer Science Andrey Erokhin, Head of Systems Engineering Department Igor Grebennik.

More than 100 students from 38 universities in 20 cities of Ukraine have gathered to participate in professional competitions in the main sections of of computer science. All of them are winners of the first round of the Olympiad in their native universities. Students performed tasks on programming, discrete mathematics, probability theory, databases, computer networks, numerical methods.

The competition was held at a high level. Most of the students have coped with the proposed tasks. The jury of representatives of the leading universities of Ukraine determined the winners. All of them received certificates and prizes from Kharkiv IT-company, which have become sponsors of the Olympiad.

IFIP International Young IT Awards

IFIP, the International Federation for Information Processing is launching IFIP International Young IT Awards in March 2016, for the inaugural year.

IFIP is the leading multinational organization in Information & Communications Technologies and Sciences which is recognized by United Nations and other world bodies. It represents IT Societies from 56 countries or regions, covering all 5 continents with a total membership of over half a million and links more than 3500 scientists from Academia and Industry.

This recognition scheme for IT industry is organized by InterYIT, the International Young IT Group of IFIP.

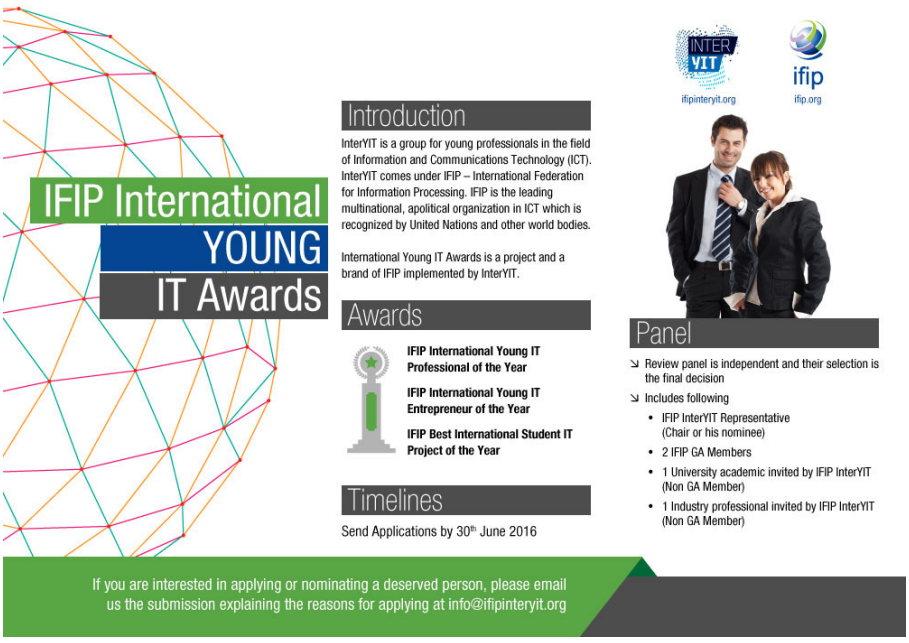
The Objectives of the Awards scheme are to recognize Young IT Professionals around the world at Global level for their achievements, connect up and coming IT Professionals with the world and help them grow to greater heights in their careers.

In its inaugural year, there will be three awards presented and they are, IFIP International Young IT Professional of the Year, IFIP International Young IT Entrepreneur of the Year and IFIP International Best Student IT Project of the Year.

The scheme is promoted globally for nominations and invite individuals to apply, mainly through our member societies while anyone is invited to apply. Applications will be reviewed by an independent panel appointed by IFIP InterYIT. The winners will be announced at the Awards ceremony and awards presented at a global event, later in 2016.

The independent review panel will consist of an IFIP InterYIT Representative (Chair or his nominee), two IFIP General Assembly (GA) Members, one University academic invited by IFIP InterYIT (Non GA Member) and one Industry professional invite by IFIP InterYIT (Non GA Member).

The project is led by Yasas V. Abeywickrama, the Chair of IFIP InterYIT and also a Councilor of the Board of IFIP. Marking the launch of this international awards scheme, Abeywickrama stated that IFIP as the international federation of the IT industry is extremely proud to organize this activity as it will recognize the young achievers of the industry at a global level to encourage and help them to grow even further in their professional careers. He was positive that this will have a lasting impact on them to perform even better in the future to enrich the industry and to make the world a better place.



The applications are invited to be sent from now until the deadline if 30th June 2016 to info@ifip interyit.org, explaining the achievements of the candidate.

Further details also can be requested from info@ifipinteryit.org.

IFIP InterYIT Presents at the Japanese National IT Convention

IFIP InterYIT, the global professional group for young people working in Information and Communications Technology (ICT), had presence at the The 78th National Convention of Information Processing Society of Japan.

InterYIT Chairman, Yasas V. Abeywickrama, made a presentation on the topic, the Role of Young Professional in the ICT industry, which was very well received by the audience.

Established in 2011 as part of the global federation of ICT professional associations, IFIP (International Federation for Information Processing), InterYIT aims to become the umbrella organisation for all Young ICT professionals, fostering communication between Young IT Groups and promoting greater involvement by young professionals in their national computer societies.

Mr Abeywickrama said the Japanese National convention and associated discussions were very fruitful. “We were able to communicate the success of our work thus far in empowering young professionals in the ICT industry across the world and also had the opportunity to invite Japanese young professionals to join hands with us on our efforts.,” he said.

IFIP InterYIT has become the umbrella organisation for all Young ICT professionals around the world, fostering communication between Young IT Groups and promoting representation of young professionals in the national computer societies as well as within IFIP.

In his speech at the IPSJ National convention, Abeywickrama explained that it’s no secret that technology is changing the world. But when you stop and think about it, technology is created by people – often young people who are willing to challenge the status quo and do things differently. He argued that youth have to take a role in educating the more senior citizens who are not aware of these benefits as well as get them enabled to utilize technologies better.

It is also important to understand that we have an industry in ICT, Information and Communication Technology, which is driven and run by young people. And this will continue to increase as today’s digital natives find new and innovative ways to apply technology to improve peoples’ lives. So if the industry is young and if the key drivers of that industry are young, then the supporting organizations, government bodies and industry groups should also reflect that. They should have young representation and inclusion. IFIP InterYIT is taking this thought leadership view around the world for the betterment of the industry and society at large.

ENDS

About IFIP InterYIT

InterYIT is the international association for Young IT Professionals and operates under the auspices of IFIP, a global federation of ICT societies and associations covering 50 nations and regions with a total membership of over 500,000 ICT professionals. Established in 2011, InterYIT exists to: encourage professionalism amongst young IT practitioners; foster communication between different Young IT groups; and to provide opportunities for young professionals to connect, share knowledge and be recognised for their achievements.

PRO-VE 2016 - 17th IFIP Working Conference on Virtual Enterprises

Collaboration in a Hyperconnected World

Porto, Portugal 3-5 October 2016

A part of our everyday life is increasingly formed by hyperconnectivity. Digital interconnection of people and things is expanding to anytime and anywhere in the world. It is estimated that by 2020 over 50 billion networked devices will co-exist in the world. There are profound and challenging social, political, and economic consequences associated with such a vast level of connectivity. In a hyperconnected world, humans, intelligent agents, machines and devices generate data, interconnect through data, and act together, evolving toward an increasingly effective collective intelligence within an exponentially growing platform.

In the last two decades, advances in ICT, Internet, and cloud have led to the explosion of collaborative networks, both at the level of people through social networks and virtual communities, and at the level of organizations through business ecosystems, dynamic supply chains, virtual organizations, and their breeding environments. This trend is amplified by the emergence of the Internet of Things and Cyber-Physical Systems addressing a pervasive interconnection of and collaboration among physical and virtual objects.

New collaboration structures, technologies and governance models need to be envisioned and developed to deal with large amounts of diverse inter-connected objects and enable to reach new levels of collective awareness and intelligence, facilitating new forms of co-creation, more effective problem solving, and collective decision making.

PRO-VE 2016 will provide a forum for sharing experiences, discussing trends, identifying challenges, and introducing innovative solutions aimed at fulfilling the vision of a hyperconnected world. Papers on foundational research as well as on technological development and innovative case applications are solicited. Furthermore, nine Special Sessions are planned.

Topics include, among others:	Planned special sessions:
Collaborative models, platforms and systems for blending virtual-physical worlds Collaboration and collective awareness in hyperconnected world Collaborative big data intelligence Dynamics of / evolution in collaborative virtual-physical ecosystems Security in collaborative systems Risks and performance in collaborative systems Economic and social impact of collaboration Development platforms and challenges supporting collaborative systems Legal and policy aspects for hyperconnected world Collective Intelligence and collaboration in advanced/emerging applications	*Collaboration in Intelligent Products Ecosystems* *Design Science Research in Collaborative Networks* *Collaborative Networks in the Circular Economy* *Collaborative Engineering of Networked Cyber-Physical Systems* *Collaboration in Food and Agribusiness Value Chain* *Novel Business Models for Collaboration in Hyper-connected Contexts* *Collaborative networks for product personalization* *Collaborative serious games* *Collaborative wireless sensor networks*

Abstract submission deadline: 20 Mar 2016 **Full paper submission deadline: 17 Apr 2016**

Evaluation of papers is based on the full text, considering the level of scientific and technological originality. However, prospective authors should submit a short abstract to the conference in advance, in order to check if the proposed topic fits within the conference scope.

For further information: **www.pro-ve.org**

PLM16 - IFIP 13th International Conference on Product Lifecycle Management

http://www.plm-conference.org

11-13 July, Columbia, South Carolina, USA

FULL PAPER SUBMISSION : 15 APRIL 2016

Featuring new PLM concepts based on Internet of Things, Cyber-Physical Systems and BIM...

Targetting new areas dealing with Aeronautics, Smart Cities, and Industry 4.0...

Conference of the WG5.1 "Global Product development for the whole lifecycle" (www.ifip-wg51.org), PLM16 brings together researchers, developers, and users of Product Lifecycle Management (PLM), an ICT and integrated business approach to the collaborative creation, management and dissemination of engineering data throughout the extended enterprises that create, manufacture and operate engineered products, services and systems. The conference aims at involving all stakeholders of the wide concept of PLM, hoping to shape the future of the PLM complex field and advance the science and practice of enterprise development.

Beyond the **scientific presentations**, the PLM16 dedicates :

- A full day dedicated to industry panels and presentations. A visit will bring us to Boeing's manufacturing, assembly and research sites in Charleston. A 6 hour visit is planned, where we will get up close and personal with how 787 composite parts are manufactured and how the Dreamliner reaches its final assembly. The tour also includes a Boeing Research and Technology site visit, where Boeing is conducting research on innovative manufacturing and inspection techniques. You definitely should not miss this!
- Special Sessions on current socio-economical topics
- Keynote Speakers from NIST and other research Centers and industry
- A Doctoral Workshop and Tutorials
- Special Issues in Indexed Scientific Journals
- IFIP Awards for the «Best Paper» and the «Best PhD study»
- Rich Social Program
- High level sponsorship: the 3D Experience company Dassault Systèmes has teamed up with PLM16 !

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

13th International Workshop on Coalgebraic Methods in Computer Science http://www.coalg.org/cmcs16	**CMCS 2016**	**02/04-03/04 2016 Eindhoven, NL**	**IFIP TC1**
International Conference on Architecture of Computing Systems http://www3.cs.fau.de/arcs2016	**ARCS 2016**	**04/04-07/04 2016 Nürnberg, DE**	**ITG - Informationstechnische Gesellschaft / GI - Gesellschaft für Informatik**
Traffic Monitoring and Analysis workshop http://tma.ifip.org/2016	**TMA**	**07/04-08/04 2016 Louvain La Neuve, BE**	**IFIP TC6**
Doctoral Conference on Computing, Electrical and Industrial Systems http://sites.uninova.pt/doceis/	**DoCEIS`16**	**11/04-13/04 2016 Caparica, PT**	**IFIP WG5.5 / IEEE – IES / SOCOLNET**
The 15th International Conference on Principles of Knowledge Representation and Reasoning http://kr2016.cs.uct.ac.za	**KR2016**	**25/04-29/04 2016 Cape Town, ZA**	**Department of Science and Technology, South Africa**
2016 IEEE/IFIP Network Operations and Management Symposium http://noms2016.ieee-noms.org/	**IEEE/IFIP NOMS 2016**	**25/04-29/04 2016 Istanbul, TR**	**IFIP WG6.6 / IFIP TC6**
IFIP Networking 2016 Conference http://networking2016.univie.ac.at	**NETWORKING 2016**	**17/05-19/05 2016 Vienna, AT**	**IFIP TC6**
International Communities of Invention and Innovation http://wp.nyu.edu/ifip_wg97/	**WG 9.7**	**25/05-28/05 2016 New York, US**	**NYU Polytechnic School of Engineering**
International Conference on Wired/Wireless Internet Communications http://www.wwic.info/	**WWIC**	**25/05-27/05 2016 Thessaloniki, GR**	**IEEE**
2nd International Workshop on Computational History and Data-Driven Humanities http://kdeg.scss.tcd.ie/2nd-international-workshop-computational-history-and-data-driven-humanities	**CHDDH**	**27/05-25/05 2016 Dublin, IE**	**ADAPT Centre**
IFIP Information Security & Privacy Conference http://ifipsec.org/2016	**IFIP SEC 2016**	**30/05-01/06 2016 Ghent, BE**	**IFIP TC11**
Computer Graphics, Visualization and Computer Vision http://www.wscg.eu	**WSCG2016**	**30/05-03/06 2016 Plzen, CZ**	**University of West Bohemia, NVIDIA Corp. (Czech Rep.)**
Twelfth International Conference on Open Source Systems http://oss2016.org	**OSS 2016**	**31/05-01/06 2016 Gothenburg, SE**	**IFIP WG2.13 / IFIP TC2**
11th International Federated Conference on Distributed Computing Techniques http://2016.discotec.org	**DisCoTec 2016**	**06/06-09/06 2016 Heraklion, GR**	**IFIP WG6.1 / IFIP TC6**
SIGMETRICS/PERFORMANCE 13th Joint International Conference on Measurement and Modeling of Computer Systems http://www.sigmetrics.org/sigmetrics2016/	**SIGM/PERF 2016**	**15/06-17/06 2016 Juan-Les-Pins, FR**	**IFIP WG7.3 / IFIP TC7**
Culture Technology Communication 2016 http://philo.at/ocs2/index.php/london16/	**CaTaC2016**	**15/06-17/06 2016 London, GB**	**IFIP WG13.8 / IFIP TC13**
22nd Annual International Workshop on Cellular Automata and Discrete Complex Systems http://automata2016.ini.uzh.ch	**AUTOMATA 2016**	**15/06-17/06 2016 Zurich, CH**	**IFIP WG1.5 / IFIP TC1**
Mediterranean Ad Hoc Networking Workshop 2016 http://craax.upc.edu/medhocnet2016/	**Med-Hoc-Net 2016**	**20/06-22/06 2016 Vilanova i la Geltrú, ES**	**IFIP WG6.8 / IFIP TC6**
International Conference on Autonomous Infrastructure, Management and Security http://www.aims-conference.org/2016/	**AIMS**	**20/06-24/06 2016 Munich, DE**	**IFIP WG6.6 / IFIP TC6**

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EICS`16: ACM SIGCHI Symposium on Engineering Interactive Computing Systems http://eics-conference.org/2016/	**EICS**	**21/06-24/06 2016 Brussels, BE**	**IFIP WG13.4 / IFIP TC13**
8th IFAC Conference on Manufacturing Modelling, Management & Control http://mim2016.utt.fr/	**MIM 2016**	**28/06-30/06 2016 Troyes, FR**	**IFIP TC7, IFIP TC5**
ICNPAA 2016: Mathematical Problems in Engineering, Aerospace and Sciences http://www.icnpaa.com	**ICNPAA 2016**	**05/07-08/07 2016 La Rochelle, FR**	**IFIP TC7**
9th International Conference on Graph Transformation https://sites.google.com/site/icgt2016/	**ICGT 2016**	**05/07-06/07 2016 Vienna, AT**	**IFIP WG1.3 / IFIP TC1**
The 2016 IFIP TC3 joint conference - Stakeholders and information technology in education http://SaITE2016.dsi.uminho.pt	**SaITE 2016**	**06/07-08/07 2016 Guimaraes, PT**	**IFIP TC3**
Second Workshop on: Bridging the Gap between Human and Automated Reasoning http://ratiolog.uni-koblenz.de/bridging2016.html	**Bridging 2016**	**10/07-10/07 2016 New York, US**	**IFIP TC12**
9th IFIP Wireless and Mobile Networking Conference http://grtc.uha.fr/WMNC16.html	**WMNC`16**	**11/07-13/07 2016 Colmar, FR**	**IFIP TC6**
IFIP WG 11.11 International Conference on Trust Management http://ifiptm2016.tk.informatik.tu-darmstadt.de/	**IFIPTM**	**18/07-22/07 2016 Darmstadt, DE**	**IFIP WG11.11 / IFIP TC11**
International Workshop on Quality-aware DevOps http://qudos2016.fortiss.org/	**QUDOS 2016**	**21/07-21/07 2016 Saarbrücken, DE**	**IFIP WG2.14 / IFIP TC2**
IFIP WG 8.6 Conference 2016 Sweden http://www.ifip2016.org	**ifipWG86-2016**	**05/08-07/08 2016 Ljungskile, SE**	**IFIP WG8.6 IFIP TC8**
29th Symposium on Integrated Circuits and Systems Design http://www.chip-on-the-mountains.com	**SBCCI 2016**	**29/08-03/09 2016 Belo Horizonte, BR**	**SBC, SBC/CECCI, SBMicro, ACM, ACM/SIGDA, IEEE, IEEE/CASS, IFIP**
International Cross Domain Conference and Workshop http://cd-ares-conference.eu/	**CD-ARES**	**31/08-02/09 2016 Salzburg, AT**	**IFIP WG8.4 / IFIP TC8**
15th IFIP International Electronic Government Conference 2016 http://www.egov-conference.org	**IFIP EGOV**	**05/09-08/09 2016 Guimarães, PT**	**IFIP WG8.5 IFIP TC8**
8th Annual IFIP Electronic Participation Conference http://www.epart-conference.org	**IFIP ePart 2016**	**05/09-08/09 2016 Guimarães, PT**	**IFIP WG8.5 / IFIP TC8**
International Conference on Advances in Production Management Systems http://www.apms-conference.org/	**APMS 2016**	**05/09-07/09 2016 Iguassu Falls, BR**	**irenilza@gmail.com**
European Conference on Service-oriented and Cloud Computing http://esocc2016.eu/	**ESOCC 2016**	**05/09-07/09 2016 Vienna, AT**	**IFIP WG2.14 / IFIP TC2**
IFIP Workshop `Optimal Control Meets Inverse Problems` http://udue.de/ifip2016	**OCIP16**	**05/09-09/09 2016 Essen, DE**	**IFIP WG7.4 / IFIP TC7**
12th IFIP TC9 Human Choice and Computers Conference http://hcc12.net	**HCC12**	**07/09-09/09 2016 Manchester, GB**	**IFIP TC9**
IFIP World Information Technology Forum http://www.witfor2016.org	**IFIP WITFOR 2016**	**12/09-14/09 2016 San José, CR**	**IFIP flagship**
The 15th IFIP Conference on e-Business, e-Services and e-Society (I3E) http://www.swansea.ac.uk/som/	**I3E 2016**	**13/09-15/09 2016 Swansea, GB**	**IFIP WG6.11 / IFIP TC6**
Artificial Intelligence Applications and Innovations 2016 http://aiai2015.sigappfr.org/	**AIAI 2016**	**23/09-26/09 2016 Thessaloniki, GR**	**IFIP WG12.5 / IFIP TC12**

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