Workshop for "Internet of Things" Conference – October 6-8, 2014

EU-US Workshop: Promoting Global IoT Success Stories

Wednesday, October 8th, 2014, Cambridge, MA

Venue: Multi-Purpose Room, MIT Media Lab (Building E14), Cambridge, MA, US (East side of campus)

Workshop Agenda (links to IoT website page) current as of September 26

3:30-4:00	**Keynote Speeches:** ○ EU: Andrea Glorioso, ICT & Digital Economy Counselor, EU Delegation to US ○ US: Dr. Chris Greer, Director of Cyber Physical Systems & Smart Grid Program Office, **NIST**
4:00-4:40	**IoT Research Strategies to Promote Innovation & Ecosystems** ○ EU: Philippe Cousin, **IERC** & CEO, Easy Global Market ○ US: Dr. Sanjay Sarma, Professor of Mechanical Engineering, Co-Founder of Auto-ID Center, **MIT**
4:40-5:00	**Addressing Global Challenges to Enable Market Take-up & the IoT Economy** ○ EU: Dr. Srdjan Krco, **IERC** AC1, SocioTal, IoT Lab, Citi-sense and Smartie projects ○ US: Shoumen Datta, SVP, **Industrial Internet Consortium** (IIC) & SVP OMG
5:00-5:15	Coffee break
5:15-5:45	**Spotlighting Market Innovation with Open Platforms** EU and US open platforms ensuring openness and semantic interoperability ○ EU: Dr. Martin Serrano, National University of Ireland Galway, **Open IoT Project** ○ EU: Dr. Levent Gürgen, **CEA-LETI**, Butler Project ○ US: Dr. Neeli Prasad, Dir. of Center for TeleInfrastructure, (**CTIF-USA**), Princeton
5:45-6:45	**Success Stories & IoT Business Cases (10 minute presentations)** ○ EU: 5-6 EU stories: Prof. Dr. Pedro Marrón, Planet, **SMART-ACTION;** Martin Serrano & Antonio Jara/**HOPU**; Dr. Srdjan Krco; Nicolaie Fantana, **ABB** ○ US: 5-6 US stories; Jason Olson, Dir. International External Affairs, **AT&T** ○ (OPEN to more US speakers - being confirmed)
6:45-7:00	**Discussions, Conclusions & Next Steps for an EU-US IoT Liaison Group** ○ Moderated by: Prof. Dr. Pedro Marrón, **SMART-ACTION**

List of speakers, panelists and moderators: (in order of appearance)

- **Dr. Chris Greer, Sr. Exec. for Cyber Physical Systems & Nat'l Coord. Smart Grid, NIST**
- **Philippe Cousin, Easy Global Market, France, CEO representing IERC (IoT European Research Cluster)**
- **Dr. Sanjay Sarma, Prof of Mechanical Engineering, Co-founder Auto-ID Center, MIT**
- **Dr. Srdjan Krco, DunavNET ltd, representing projects SocIoTal, IoT Lab, Citi-sense and Smartie**
- **Shoumen Datta, SVP, Industrial Internet Consortium & SVP, Object Management Group (OMG)**
- **Dr. Martin Serrano, National University of Ireland Galway, representing openIoT**
- **Dr. Levent Gürgen, CEA-LETI to represent BUTLER, ClouT and FESTIVAL**
- **Dr. Neeli Prasad, Director, Center for TeleInfrastructure USA (CTIF-USA)**
- **Prof. Pedro Marrón, University of Duisburg-Essen and Fraunhofer FKIE, also representing Planet, SMART-ACTION projects**
- **Dr. Antonio Jara, Asst. Prof HES-SO, IoT Start-up HOPU, representing projects IoT6**
- **Dr. Nicolaie Fantana, ABB**
- **Jason Olson, Director, International External Affairs, AT&T**

Short Bios in Alphabetical Order:

Philippe Cousin, Easy Global Market, C.E.O. Philippe Cousin is currently chairing the WG Market Confidence within the IoT Forum. He is involved in the IoT European Research Cluster (IERC) as coordinator of the Interoperability Activity Chain (AC4), as well as on Dissemination and International matters (thanks also to the Smart Action project). Since 2011, he has been rapporteur of EU-China IoT expert Group. He is project manager of the EU-China Fire project and named ECIAO. He is also involved in Future internet FI-PPP programme in the Use Case FI-STAR project where he is leading the Quality and Validation WP, as well as addressing IoT related Generic Enablers. Philippe Cousin has 30 years of experience in ICT and has worked since 2001 in +20 EU Research projects. He is an expert in ICT Standardisation, Validation and Interoperability issues and has spent 20+ years working in Orange/France Telecom R&D. He also worked as Project Officer at the European Commission in Standardisation, Quality and CE Marking. After 4 years as Test house General Manager he joined ETSI in 2011 where he worked on ICT testing and validation issues as the Interoperability Service Director. There, he launched the Plugtests Service. He also founded Easy Global Market in 2010, which is successfully involved in many FP7 projects and looking towards future Horizon 2020 projects.

Shoumen Palit Austin Datta is a Research Affiliate at the School of Engineering at MIT and also serves as the Senior Vice President of the nascent Industrial Internet Consortium (IIC). He is interested in the diffusion of tools and technologies to catalyze science to serve society. He has a background in science, medicine and engineering as well as global experience through academic appointments, corporate engagements and government roles. Shumen earned his PhD from Rutgers University (NJ, USA). He was a research fellow in medicine at the Massachusetts General Hospital and instructor in Medicine at Harvard Medical School, Harvard University. For more information, please explore www.iot-conference.org/iot2014/keynote-speakers/

Dr. Chris Greer is NIST Senior Executive for Cyber Physical Systems and National Coordinator for Smart Grid Interoperability. In these positions, he is responsible for strategic planning, program implementation and coordination with partners across the public and private sectors. Prior to joining NIST, Dr. Greer served as Assistant Director for Information Technology R&D in the White House Office of Science and Technology Policy and Cybersecurity Liaison to the National Security Staff. His responsibilities there included networking and information technology research and development, cybersecurity, and digital scientific data access. Dr. Greer has also served as Director of the National Coordination Office for the Federal Networking and Information Technology Research and Development (NITRD) Program. This program coordinates IT R&D investments across the Federal government.

Dr. Levent Gürgen is R&D project manager in CEA-LETI and currently coordinating 2 European collaborative projects on the Internet of Things. He is the technical coordinator of the BUTLER project, a large scale European project (15M€ budget, 20 partners). The main goal of this project is to develop a horizontal IoT platform where context aware IoT applications from different verticals can be plugged in. He is also the coordinator of the ClouT project, a collaborative Europe-Japan project focused on using cloud computing as an enabler for exploiting the potential of the Internet of Things in the context of smart cities. Levent obtained his PhD degree in computer science from the Grenoble Institute of Technology. After 4 years in Orange Labs in France as a researcher, and 1 year in National Institute of Informatics in Tokyo, he joined CEA-LETI in 2009. His main research interests include service-oriented platforms for the Internet of Things, on which he published more than 30 papers-including journals and book chapters. He has also been involved in standardization activities such as IETF and UPnP Forum, and participated in the program committees of several scientific conferences. He has organized workshops such as Self-IoT'12 and Self-IoT'13 in conjunction with the ICAC conference on autonomic computing. Additionally, He has been involved in several other large scale European projects related to IoT and smart cities such as OUTSMART, IoT-I, and SocIoTal.

Antonio J. Jara is Prof. PostDoc at University of Applied Sciences Western Switzerland (HES-SO) from Switzerland, vice-chair of the IEEE Communications Society Internet of Things Technical Committee, and founder of the Wearable Computing and Personal Area Networks company HOP Ubiquitous S.L. He did his Ph.D (Cum Laude) at the Intelligent Systems and Telematics Research Group of the University of Murcia (UMU) from Spain. He received two M.S. (Hons. - valedictorian) degrees. Since 2007, he has been working on several projects related to IPv6, WSNs. and RFID applications in building automation and healthcare. He is especially focused on the design and development of new protocols for security and mobility for Future Internet of things, which was the topic of his Ph.D. Nowadays, he continues working on IPv6 technologies for the Internet of Things in projects such as IoT6, and also Big Data and Knowledge Engineering for Smart Cities and eHealth. He has also carried out a Masters in Business Administration (MBA). He has published over 100 international papers and holds one patent. Additionally, he participates in several Projects about the IPv6, Internet of Things, Smart Cities, and mobile healthcare.

Dr. Srdjan Krco is CEO of DunavNET ltd. In addition to managing general direction of the company he also drives its strategic research agenda. The main focus of research activities is on Internet of Things and applications of IoT in various domains, of which the smart cities is the most important. Previously, Srdjan was with Ericsson (starting in 2000) where he held a number of positions (senior research engineer, system manager, project manager). He also worked in and managed various product development and research projects during his time there. Srdjan has participated in many of FP7 projects (SocIoTal, IoT Lab, SENSEI, SmartSantander, IOT-i, Exalted, etc.) and is active in the Future Internet Assembly and IoT Forum. In 2007 he received the Innovation Engineer of the Year Award in Ireland from the Institute of Engineers of Ireland. Srdjan is one of the co-founders of the IoT Forum.

Prof. Dr. Pedro José Marrón received his bachelor and master's degree in computer engineering from the University of Michigan in Ann Arbor in 1996 and 1998. At the end of 1999, he moved to the University of Freiburg in Germany to work on his Ph.D., which he received with honors in 2001. From 2003 until 2007, he worked at the University of Stuttgart as a senior researcher, leading the mobile data management and sensor network group. In 2007, he left Stuttgart to become a Professor of Computer Science at the University of Bonn, where he led the sensor networks and pervasive computing group. In 2009 he left Bonn to become a full Professor at the University of Duisburg-Essen. He is currently head of the "Networked Embedded Systems Group" (NES). Additionally, Pedro Marrón is also the initiator and president of UBICITEC, the European Center for Ubiquitous Technologies and Smart Cities, which counts over 20 institutional partners from industry and academia forming a virtual European Center with clear research and dissemination objectives. The goal of UBICITEC is to coordinate the research efforts on enabling technologies for Smart Cities, e.g. Internet of Things and to encourage the transfer of technology to industry.

Jason Olson is Director of International External Affairs at AT&T. In this position, he leads AT&T's outreach to the foreign diplomatic community in Washington, D.C. and provides regulatory and policy support for AT&T Global Services Canada. In addition, he advocates on international trade policy and other ICT-related issues before U.S. federal agencies. He began his career with AT&T in St. Louis, Missouri, in 1997 and has held a variety of positions within the company, primarily in the External & Legislative Affairs organization. Prior to his current position, Jason was based in Salt Lake City, Utah, where he was responsible for all state government affairs matters for Utah, Montana, and Idaho. He previously held a similar position for AT&T in Anchorage, Alaska.

Jason holds undergraduate degrees in Economics and Political Science from North Dakota State University and a MBA from Washington University in St. Louis. He is based in Washington, D.C., where he is an active member in several industry organizations.

Dr. Neeli Prasad is Director of the Center for TeleInfrastructure USA (CTIF-USA), Princeton, New Jersey, USA and Associate Professor and Head of Research, CTIF head office, Aalborg University, Denmark. She is also Coordinator of Themantic area Network without Borders, Center for TeleInfrastruktur (CTIF) and leading IoT Testbed at Easy Life Lab (M2M and eHealth) and Secure Cognitive radio network testbed at S-Cogito Lab (Network Management, Security, Planning, etc.). She has over 16 years of management and research experience both in industry and academia. She is now leading a global team of 20+ researchers across multiple technical areas and projects in Japan, India, throughout Europe and USA. She has a Master of Science degree from Delft University, Netherlands and a PhD degree in electrical and electronic engineering from University of Rome Tor Vergata, Italy. She has been involved in projects totaling more than $120 million – many of which she has been the principal investigator. She was also an advisor to the European Commission and expert member of governmental working groups and cross-continental forums. She has more than 250 publications and published two of the first books on WLAN. She is an IEEE senior member and an IEEE Communications Society Distinguished Lecturer.

Dr. Sanjay Sarma is the Fred Fort Flowers (1941) and Daniel Fort Flowers (1941) Professor of Mechanical Engineering at MIT. He is the first Director of Digital Learning at MIT. He co-founded the Auto-ID Center at MIT and developed many of the key technologies behind the EPC suite of RFID standards now used worldwide. He was also the the founder and CTO of OATSystems, which was acquired by Checkpoint Systems (NYSE: CKP) in 2008. He serves on the boards of GS1, EPCglobal and several startup companies including Senaya and ESSESS. Dr. Sarma received his Bachelors from the Indian Institute of Technology, his Masters from Carnegie Mellon University and his PhD from the University of California at Berkeley. Sarma also worked at Schlumberger Oilfield Services in Aberdeen, UK, and at the Lawrence Berkeley Laboratories in Berkeley, California. He has authored over 75 academic papers in computational geometry, sensing, RFID, automation and CAD, and is the recipient of numerous awards for teaching and research including the MacVicar Fellowship, the Business Week eBiz Award and Informationweek's Innovators and Influencers Award. He advises several national governments and global companies.

Dr. Martin Serrano is Unit Director, Coordinator and Project Leader at the Insight Centre for Data Analytics Galway (Former DERI) at the National University of Ireland Galway. He holds an MSc and a Ph.D from the Technical University of Catalonia (UPC Tech), Spain. Prior to DERI he worked at the Telecommunications Software and Systems Group (TSSG) of the Waterford Institute of Technology in Waterford, Ireland (WIT). Dr. Serrano and his team have contributed to the development of the state of the art Semantic Web and Liked Data, (Data Management and Stream Data Processing) Pervasive Computing (Modelling and Context Awareness), Knowledge Engineering (Semantic Reasoning and Ontologies) and Autonomic Computing areas (Networks and Services). He is also investigating Cyber-Physical Systems Control, Sensor Networks and the Internet of Things (IoT) and their deployment in Cloud Environments. Dr. Serrano has a leading role at the European Research Cluster for the Internet of Things (EU-IERC) in Service Openness and Semantic Interoperability (AC4). Dr. Serrano has more than 10 years of experience in ICT architecture, solutions design and systems deployment. He is Author of the book Applied Ontology Engineering in Cloud Services, Networks and Management Systems edited by Springer Publishers.

About BILAT USA 2.0:

BILAT USA 2.0 is a project funded by the European Commission under FP7 (GA N° 312081). BILAT USA 2.0 aims to enhance Science, Technology and Innovation collaboration between the EU and the US.

About the BILAT USA 2.0 co-organizers:

INTRASOFT International is a leading European IT Solutions and services group which has an outstanding record of providing IT solutions to governments, public organizations and private enterprises covering more than 70 countries around the globe. Contact: Babis IPEKTSIDIS at Babis.IPEKTSIDIS@intrasoft-intl.com

Diplomacy Matters Institute is a 501(c)(3) non-profit, non-partisan organization dedicated to generating global partnerships, actionable dialogue and purposeful collaboration between governments, academia and business. Contact: Lynn VAN FLEIT at Lvanfleit@diplomacymatters.org

Additional co-organizers:

IERC

The aim of European Research Cluster on the Internet of Things is to address the large potential for IoT-based capabilities in Europe and to coordinate the convergence of ongoing activities. IERC will facilitate the knowledge sharing at the global level and will encourage and exchange best practice and new business models that are emerging in different parts of the world. In this way, measures accompanying research and innovation efforts are considered to assess the impact of the Internet of Things at global and industrial level, as well as at the organisational level.

SMART-ACTION

With the increasing miniaturization of communication devices and the proliferation of technologies such as smart phones or sensor networks, the concept of an Internet of Things (IoT) is becoming a reality, especially with their integration into Smart Cities. The interdisciplinary nature of IoT work requires understanding, coordinating, supporting and engaging not only ICT, but also other areas such as biotechnology or nanotechnologies, that provide the right context in which IoT concepts can be embedded to provide solutions that can benefit society at large.

SMART-ACTION is a 2 years project (09/2013-09/2015) that will support in addition to IERC (IoT European Research Cluster), the development of IoT strategic research agendas including other sciences and serve as an enabler for the dissemination and further integration of results into future research and industrial developments, while coordinating international efforts.
Beyond IoT, interesting project challenge will be to interact with other (non-IoT) scientists and such exchanges will be organised soon.

Contact: Pedro Marron at pjmarron@uni-due.de