



Innovations in Clouds, Internet and Networks



2016

1-3 March 2016
Paris, France

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Innovations in Clouds, Internet and Networks

2016

19th
ICIN
CONFERENCE

PARIS
MARCH 1 - 3, 2016

Welcome Message from the Chairman of the Technical Programme Committee



It is a great privilege and pleasure to welcome you to the 19th ICIN conference, and to invite you to share knowledge and ideas on Innovations in Clouds, Internet and Networks.

As usual, the conference is a great opportunity to explore new and emerging technology trends in the Telecom industry and academia, as well as to discuss their impact on business models and customer experience. **SDN, Virtualization, 5G, WebRTC, PaaS, Big Data** and **Internet of Things** are some of the key technologies that will be addressed through a set of 18 presentations carefully selected by the members of our technical programme committee, completed by 3 invited talks on today's hot topics.

The opening session features an introductory keynote from **Raouf Boutaba**, on the software defined future of networking, completed by speeches from **Nicolas Demassieux**, Senior VP Research at Orange and from **Ina Minei**, network architect at Google on programmatic management plane. On day 2, **Marcus Weldon**, corporate CTO and Bell Labs President at Nokia will provide his insights based on his recent book "The Future X Network: A Bell Labs Perspective"; and **Volker Ziegler** will detail us the Nokia architecture vision for 5G on day 3.

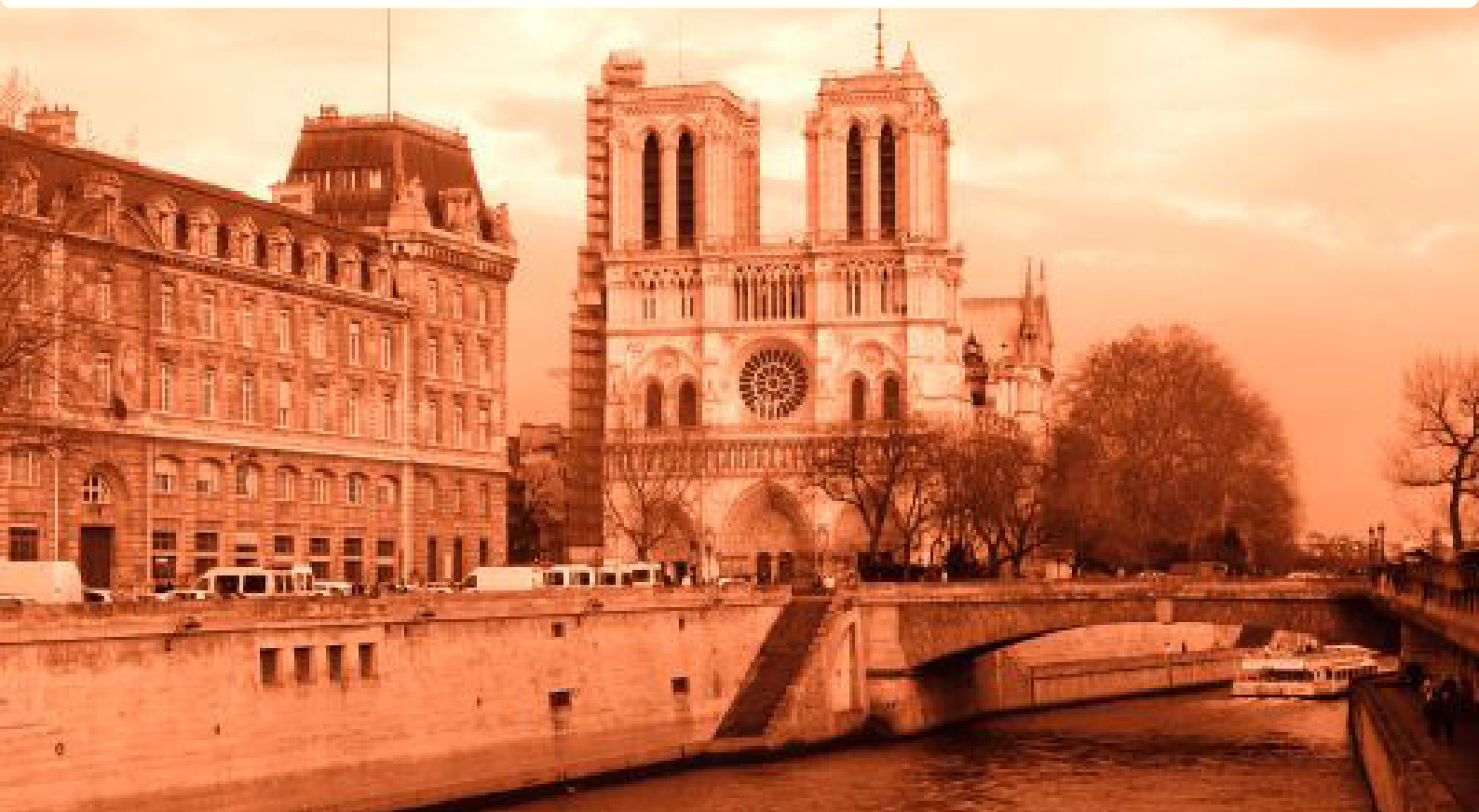
The conference event also features a special session on economy and regulation of digital platforms, with **Philippe Distler**, member of the executive board of the French Telecom Regulatory Body (ARCEP) and the economist **Marc Bourreau**; a good place to discuss the new "uber-ization" trend in our industries. In addition, ICIN is hosting the 1st workshop on **Green Communications Systems**, as well as 20+ posters and demos to let you touch new trends and topics.

I am looking forward to meeting you at #ICIN2016 !

Emmanuel Bertin

Chairman of the ICIN 2016 Technical Programme Committee

Orange Expert Future Networks



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Programme at a Glance

Tuesday March 1	Wednesday March 2		Thursday March 3	
	9:00 keynote speech , Marcus Weldon , Nokia Bell Labs		9:15 keynote speech , Volker Ziegler , Nokia	
10:00 Registration and Welcome Coffee	10:00 Coffee Break		10:00 Coffee Break	
10:30 Opening session 10:45 Introductory keynote , Raouf Boutaba	10:30 Regular session (Track B)		10:30 Regular session (Track D)	
12:30 Lunch	12:30 Lunch		12:30 Lunch	
14:00 Keynote speech Nicolas Demassieux , Orange 14:45 Keynote speech Ina Minei , Google	14:00 Regular session (Track C) - ground floor -	14:00 Workshop on Green Com. Systems - 1st floor -	14:00 Regular Session (Track A) - 1st floor -	14:00 Regular Session (Track D) - ground floor -
			15:00 Closing Session and awards	
15:30 Coffee break and posters (session 1)	16:00 Coffee break and posters (session 2)		15:30 Coffee break and end of the event	
16:00 Invited Talks (Track A) 18:00 Poster Introductions (session 1)	16:30 Special Session on digital platforms economics & regulation 17:40 Poster Introductions (session 2)			
18:30 Poster Session 1 and Welcome Reception - ground floor and 1st floor -	18:00 Poster Session 2 - ground floor and 1st floor -	18:30 TPC meeting - room IA 58/60 -		
	20:00 Gala Dinner			



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ICIN 2016 Keynote Speakers



Raouf Boutaba
*Professor at University of Waterloo
IEEE fellow, Canada
The Software-Defined future of networking and application platforms*

Raouf Boutaba is a Professor with the David R. Cheriton School of Computer Science, University of Waterloo, Canada. His research interests are in resource, network and service management in wired and wireless networked systems with a current focus on network virtualization, cloud computing and information centric networking.

He received the Bachelors degree from the University of Annaba, Algeria in 1988, a M.S. degree from the University Pierre et Marie Curie, France, in 1990, a Magister degree from the University of Annaba in collaboration with the University of Glasgow, Scotland, in 1993, and a Ph.D. degree from the University Pierre et Marie Curie in 1994, all in Computer Science.

He is the founding Editor-in-Chief for the IEEE Transactions on Network and Service Management (2007-2010) and he is currently an Editor for several IEEE, ACM and Springer journals. He has been the General or Technical Program Chair of several conferences/symposia/workshops. Dr. Boutaba is also an active member of the IEEE Communications Society and held several offices and leaderships.

For his contributions, Dr. Boutaba received several recognitions. He received the Harold Sobol Award from the IEEE Communications Society in 2007, the IFIP Silver Core in 2007, the IEEE Communications Society Joseph LoCicero Award in 2009. He also received the Salah Aidarous Award in 2012 "presented to an individual who has provided unremitting service and dedication to the IT and Telecommunications Network Operations and Management community". Dr. Boutaba is an IEEE Fellow (2012) with the citation: "for contributions to network management methodologies and applications", as well as a Fellow of the Canadian Academy of Engineering (2015).

Nicolas Demassieux
*Senior Vice President Research, Orange Labs
Some Insights on Orange Research at the dawn of the fifth "digital" Era*

Nicolas Demassieux leads the research of Orange Labs : defining the research strategy and coordinating major research initiatives involving 700+ engineers and PhD students in multiple countries, and impulsing an active policy of research partnerships with SMEs/start-ups, large enterprises and universities.

Nicolas Demassieux started his career as assistant professor at Telecom ParisTech in the field of integrated circuits architecture. In 1991, he became professor and head of the Electrical Engineering department while leading research in the area of electronics and digital IC design for Multimedia and Telecom. His work on the first generations of digital image processing (MPEG) and wireless communication (OFDM turbocodes) was transferred to industry and led to several successful product lines. He also pioneered in France the teaching of innovation, and the use of Multimedia and Web-based material for teaching.

He joined Motorola in April 1997 to help create a new research centre in Paris, which he directed from 1997 to 2001, before taking the direction of the European research, and later of the global broadband Wireless research of Motorola. With his teams at Motorola, he worked at enabling Wi-Fi, 3G and 4G mobile broadband, mobile Internet, mobile television and digital home. In 2007, he became one of the 9 Motorola fellows. He also served during this period as CEO of Motorola France.

During the years 2009-2010, Nicolas Demassieux worked at creating an Internet start-up, in the area of big data market place before joining Orange in 2010.

Nicolas Demassieux published more than 40 papers and book chapters and holds several patents. He is passionate about innovation and R&D efficiency issues. Externally to his professional activity, he is interested in a large set of science domains, including: complexity, biology, evolution and paleontology, natural and artificial ecosystems, urbanism of digital life.

Ina Minei
*Network Architect, Google, USA
Programmatic management plane*

Ina Minei is a network architect at Google, where she focuses on the Internet-facing backbone and its evolution.

Prior to Google, Ina worked at Juniper Networks as a distinguished engineer in the office of CTO, exploring SDN applications in mobile and enterprise. Before that she was director of IP and MPLS development, delivering next generation network technologies. Ina started her career at Juniper as a network protocols developer, with focus on MPLS protocols and applications, traffic engineering and network convergence and prior to that she worked at Cisco on the development of a next generation router operating system..

Ina is an active contributor in the IETF, where she worked on LDP, RSVP-TE, DiffServ-TE and YANG models in the MPLS and TEAS working groups and on the definition of a stateful path computation element for SDN-enabled MPLS networks in the PCE working group. Ina holds several patents in the area of MPLS and SDN and is co-author of the book "MPLS-enabled Applications", now in its third edition. She graduated from the Technion, Israel with a Master's degree in computer science.



Marcus Weldon
*President of Bell Labs and Corporate Chief Technology Officer, Nokia, USA
The Future X Network: A Bell Labs Perspective*

As President of Bell Labs and Corporate Chief Technology Officer, **Marcus Weldon** is responsible for coordinating the technical strategy across the company and driving technological and architectural innovations into the portfolio.

Marcus is considered one of the key person in our industry in terms of the clarity, depth and breadth of his vision, and he has a phenomenal track record in terms of picking the right technological disruptions and opportunities, from vectoring in Access, to the evolution to LTE overlay and Small Cells, to the emergence of virtualization and SDN as profound industry changing forces. He is now combining this vision with the power of Bell Labs, to create an unrivalled innovation engine for Alcatel-Lucent.

Marcus holds a B.S in Chemistry and Computer Science from King's College, London, and a Ph.D. degree in Physical Chemistry from Harvard University. In 1995, he joined the Physics Division at AT&T Bell Labs as a post-doctoral researcher, before becoming a Member of Technical Staff in the Optical Materials Division, where he won a series of scientific and engineering society awards. In 2000, Dr. Weldon started work on fiber-based Broadband Access technologies and, in 2006 he was appointed CTO of the Wireline Networks Product Division in Alcatel-Lucent following the merger of Alcatel and Lucent, with responsibility for DSL and FTTH, IPTV, Home Networking and IMS.

He was one of the primary architects behind the evolution of the Triple Play Service Delivery Architecture to the High Leverage Network™, widely accepted industry architecture for an 'all IP, converged wireline and wireless, intelligent, optimized networking'. Marcus was also a primary driver behind the groundbreaking and multiple award-winning lightRadio™ architecture for next generation wireless networks and continues to help drive the company in new directions, including defining the new programmable 'Cloud Network' paradigm that will enable the network to emulate computing and become a agile, reconfigurable, consumable platform for innovation and value creation for Cloud services (based on the principles of Software-Defined Networking and Network Functions Virtualization).

Marcus is a member of the Executive Board of ATIS (Alliance for Telecommunications Industry Solutions) and a member of the FCC Open Internet Advisory Committee, as well as an advisor to select Venture Investment Funds. He is one part of a happy Anglo-American union which has produced 5 progeny, ages ranging from 4-19. He lives in Summit, NJ when not on a plane or train.

Volker Ziegler
*Chief Architect, Technology and Innovation, Nokia Networks, Germany
The Nokia Architecture Vision for the 5G era*

Volker Ziegler serves as Chief Architect of Nokia Networks. He leads and owns the long term Nokia Networks e2e architecture; steers and leverages architectural development cycle for sustainable and innovation led growth and competitive differentiation; ensures that Nokia Networks e2e architecture evolves in step with Nokia top customers.

Volker has more than 20 years of Telco and IT industry experience and has an excellent understanding of both Technology and Business.

He works closely with the Nokia Unit Heads and Technology&Innovation leadership team to define and move forward the Nokia architecture vision and associated network evolution. He has previously led Nokia Siemens Networks (NSN) strategy and business portfolio and, the global business development, sales and operations strategy and transformation of NSN.

Prior to that, Volker has successfully served as the Head of the North East Region of NSN. This role has included the profit and loss responsibility as well as full accountability for operational sales and services for one of the seven world regions of NSN including Scandinavia, Russia, CIS and Turkey. He holds a PhD in Electrical Engineering from the University of Karlsruhe and is graduated from the Harvard executive development program.



department while leading research in the area of electronics and digital IC design for Multimedia and Telecom. His work on the first generations of digital image processing (MPEG) and wireless communication (OFDM turbocodes) was transferred to industry and led to several successful product lines. He also pioneered in France the teaching of innovation, and the use of Multimedia and Web-based material for teaching.

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Track A – NETWORK IT-ISATION AND 5G

Chair: *Prosper Chemouil (Orange Labs, France)*

Invited Talks – 16:00-18:00 – Tuesday 1

Introduction and insights

Prosper Chemouil

Intelligent edges, how to benefit from SDN/NFV

Andreas Gladisch (VP convergent Networks, Deutsche Telekom Labs, Germany)

5G: It's the Network, Stupid

Dirk Kutscher (NEC laboratories Europe, Germany)

A Vision for Explicit Path-Cooperative Transport

Brian Trammell and Mirja Kuehlewind (ETH Zurich, Switzerland)

Regular Session – 14:00-15:00 – Thursday 3

Cloud RAN Challenges and Solutions

Rajeev Agrawal and Anand Bedekar (Nokia, USA); Troels Kolding (Nokia, Denmark); Vishnu Ram (Nokia, India)

Congestion Control Using OpenFlow in Software Defined Data Center Networks

Masoumeh Gholami and Behzad Akbari (Tarbiat Modares University, Iran)

Experimentation as an ISP-Service

Zaineb Tahri, Ramzi Ouafi and Mohamed Karim Sbai (ESPRIT School of Engineering, Tunisia)

Poster Session 1 – 15:30-16:00 and 18:30-21:00 – Tuesday 1

Using Linux Containers in Telecom Applications

Csaba Rotter, Gergely Csatári, Lorant Farkas, Gabor Nyiri, Laszlo Janosi and Robert Springer (Nokia Networks, Hungary)

Biochemically-inspired Method for Constructing Service Space in Virtualized Network System

Go Hasegawa, Shun Sakurai and Masayuki Murata (Osaka University, Japan)

An Adaptive Observation Window for Verifying Configuration Changes in Self-Organizing Networks

Tsvetko Tsvetkov (Technische Universität München, Germany); Janne Ali-Tolppa (Nokia Networks, Germany)

An Efficient Security Framework to Detect Intrusions At Virtual Network Layer of Cloud Computing

Kamatchi A. and Chirag Modi (National Institute of Technology Goa, India)

Research Challenges in 5G Networks: a HetNets Perspective

Muhammad Umer Farooq, Cormac J. Sreenan and Kenneth N Brown (University College Cork, Ireland)

Track B – BIG DATA INSIGHTS FOR NETWORKING

Chair: *Françoise Soulié Fogelman (Tianjin University, China)*

Regular Session – 10:30-12:30 – Wednesday 2

Introductions and insights

Françoise Soulié Fogelman

Secure Multi-party Based Cloud Computing Framework for Statistical Data Analysis of Encrypted Data

Harsha S Gardiyawasam Pussewalage (University of Agder, Norway)

Data I/O Provision for Spark Applications in a Mesos Cluster

Nam Hoai Do, Tien Van Do and Xuan Tran (Budapest University of Technology and Economics, Hungary); Lorant Farkas and Csaba Rotter (Nokia Networks, Hungary)

Subjective Perception Scoring

Jörg Niemöller (Ericsson, Sweden); Nina Washington (Ericsson Research, Sweden)

Fighting Fire with Fire: Survey of Strategies for Counteracting

The Complexity of Future Networks Management

Anne-Marie C. Bosneag, Sidath Handurukande, MingXue Wang (Ericsson Research Centre, Ireland)

Poster Session 2 – 16:00-16:30 and 18:00-19:00 – Wednesday 2

A Genetic Feature Selection Algorithm for Anomaly Classification in Mobile Networks

Márton Kajó and Szabolcs Nováczki (Nokia, Hungary)

A Method for Virtual Extension of LZW Compression Dictionary

István Finta (Nokia & Óbuda University, Hungary); Lóránt Farkas (Nokia, Hungary); Sándor Szénási and Szabolcs Sergyán (Óbuda University, Hungary)



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Track C – REAL-TIME COMMUNICATION PLATFORMS AND SERVICES

Chair: *Axel Küpper (Deutsche Telekom, Germany)*

Regular Session – 14:00-16:00 – Wednesday 2

Introductions and insights

Axel Küpper

Global Identity and Reachability Framework for Interoperable P2P Communication Services

Ibrahim Tariq Javed, Rebecca Copeland, Noel Crespi (Institut Mines-Télécom, France); Felix Beierle, Sebastian Göndör, Axel Küpper (TU Berlin, Germany); Ahmed Bouabdallah (Institut Mines-Telecom, France); Marc Emmelmann and Andreea Corici (Fraunhofer FOKUS Institute, Germany); Kevin Corre and Jean-Michel Crom (Orange Labs, France); Frank Oberle and Ingo Friese (Deutsche Telekom Laboratories, Germany); Ana Caldeira and Gil Dias (Universidade de Lisboa, Portugal); Ricardo Jorge Fernandes Chaves and Nuno Santos (INESC-ID & IST Portugal, Portugal)

TURN Servers Impacts Over WebRTC QoE in 4G Network

Antonin Marechal and Ewa Janczukowicz (Orange Labs, France)

A Question of Quality - VoIP, WebRTC or VoLTE?

Rebecca Copeland (Institut Mines-Télécom & Core Viewpoint Limited, United Kingdom); Michael Copeland (Core Viewpoint Ltd, United Kingdom)

WebRTC and IMS: Parallel Universes on a Collision Course?

Stephane Tuffin (Orange Labs, France)

Poster Session 1 – 15:30-16:00 and 18:30-21:00 – Tuesday 1

When Coactivity Enhances Video Communication Experience

Mathilde Cosquer and Claude Daloz (Orange, France)

Characterization of Priority Control Based on Media Access Control Method SP-MAC Over WLAN

Ryoma Ando, Ryo Hamamoto, Hiroyasu Obata, Chisa Takano and Kenji Ishida (Hiroshima City University, Japan)

Poster Session 2 – 16:00-16:00 and 18:30-21:00 – Tuesday 1

Anticipating Households' Demand for Peak Bandwidth: a Revision of a Model From the Broadband Stakeholder Group

Brahim Allan (British Telecommunications PLC, United Kingdom); Douglas Williams (BT Innovate and Design, United Kingdom)

FlashPoll: A Context-aware Polling Ecosystem for Mobile Participation

Bersant Deva and Sandro Rodriguez Garzon (Technische Universität Berlin & Telekom Innovation Laboratories, Germany); Axel Küpper (TU Berlin, Germany)

A Text-to-Picture m-Learning System in a Private Wireless Mesh Network

AbdelGhani Karkar and Amal Dandashi (Qatar University, Qatar)

SDP-based Signaling and OTT Services: History and Perspective on an Evolving Trend

Jean-Charles Grégoire (University of Quebec, INRS, Canada)

Design and Implementation of a High Performant PaaS Platform for Creating Novel Real-Time Communication Paradigms

Alice Cheambe, Maiorano Pasquale and Flavio Murgia (Fraunhofer Institut FOKUS, Germany); Boni Garcia and Micael Gallego Carrillo (Universidad Rey Juan Carlos, Spain); Giuseppe Carella and Lorenzo Tomasini (TU Berlin, Germany); Alin Calinciuc and Cristian Spoiola (University Stefan cel Mare Suceava, Romania)

The ABC of Future Global Reachability

Francois Toutain, Emmanuel Le Huérou and Eric Beaufilets (Orange Labs, France)

Track D – INTERNET OF THINGS

Chair: *Payam Barnaghi (University of Surrey, UK)*

Regular Session – 10:30-12:30 – Thursday 3

Introductions and insights

Payam Barnaghi

Resource Allocation Using Virtual Objects in the Internet of Things: a QoI Oriented Consensus Algorithm

Andrea Carta, Virginia Pilloni and Luigi Atzori (University of Cagliari, Italy)

Applied Attribute-based Encryption Schemes

Sebastian Zickau, Dirk Thatmann, Artjom Butyrtschik, Iwailo Denisov and Axel Küpper (TU Berlin, Germany)

Adaptive and Composite Privacy and Security Mechanism for IoT Communication

Swaminathan Seetharaman and Sudipta Ghosh (Wipro Technologies, India)

A Reputation and Knowledge Based Trust Service Platform for Trustworthy Social Internet of Things

Nguyen Binh Truong (Liverpool John Moores University, United Kingdom); Tai-Won Um (Electronics and Telecommunications Research Institute, Korea); Gyu Myoung Lee (Liverpool John Moores University, United Kingdom)

Regular Session – 14:00-15:00 – Thursday 3

Managing Personal Information: A Telco Perspective

Ewelina Szczekocka and Justyna Gromada (Orange Labs, Poland); Agata Filipowska, Piotr Jankowiak and Piotr Kaluźny (Poznan University of Economics, Poland); Arnaud Brun and Jean Michel Portugal (Orange Labs, France); Jacopo Staiano (Sorbonne University, France)

XMPP-based Network Management Infrastructure for Agile IoT Application Deployment and Configuration

Enrico Ferrera, Davide Conzon and Paolo Brizzi (Istituto Superiore Mario Boella, Italy); Lucas Gomes (Federal University of Pernambuco & GPRT, Brazil); Marc Jentsch (Fraunhofer Gesellschaft, Germany); Peeter Kool (CNet Svenska AB, Sweden)

Toward a Distributed Multi-Agents IoT Platform

Karim Saikali and Nicole Boutros Saikali (University Saint Joseph, Lebanon)

Poster Session 1 – 15:30-16:00 and 18:30-21:00 – Tuesday 1

Edge-of-Cloud Fast-Data Consolidation for the Internet of Things

Gilles Privat, Laurent Lemke, Christophe Azemar, Pascale Borscia and Marc Capdevielle (Orange Labs, France)



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Demo Track

Chair: *Jean-Christophe Schiel (Airbus Defence and Space, France); Max Michel (Orange, France)*

Poster session 1 – 15:30-16:00 and 18:30-21:00 – Tuesday 1

An Openstack Integration Method with Linux Container

Akos Leíter and Róbert Fekete (Ericsson, Hungary)

SDN Integration and Management Solutions for Campus Network Enhanced Services

Jordi Ortiz (University of Murcia, Spain); José Aznar (I2cat, Spain); Alaitz Mendiola (University of the Basque Country, Spain); Kostas Giotis (National Technical University of Athens, Greece)

A NFV real case

Sylvain Desbureaux (Orange Labs, France)

Poster session 2 – 16:00-16:30 and 18:00-19:00 – Wednesday 2

Toward a participatory device-to-device Internet

Khaldoun Al Agha (Green Communications, France)

OpenStack orchestration with Watcher

Antoine Cabot, Xavier Priem (B-Com, France)

1st workshop on Green Communications Systems

Chair: *Noël Crespi (Institut Mines-Telecom, France)*

Workshop – 14:00-16:00 – Wednesday 2

ICT energy challenges and forecast

Philippe Richard (Nokia Bell Labs Senior Director, France)

CONVINCE: Towards Performance Optimization in Video Distribution Networks

Adrian Popescu (Blekinge Institute of Technology, Sweden), Raoul Monnier (Thomson Video Networks, France), Rickard Ljung (Sony Mobile, Sweden)

Quality of Experience on Smartphones: Network, Application and Energy Perspectives

Selim Ickin (Ericsson, Sweden) and Markus Fiedler (Blekinge Institute of Technology, Sweden)

Power Aware Media Delivery Platform Based on Containers

Jimmy Kjällman, Miika Komu, Tero Kauppinen (Ericsson, Finland)

Energy Savings for Video Streaming using Fountain Coding

Anders Plymoth (TelHoc AB, USA), Zhi Zhang (Lund University, Sweden)

Cross-layer energy optimization for dynamic video streaming over Wi-Fi

Zhi Zhang, Mehmet Karaca, Farnaz Moradi, Bjorn Landfeldt and Saeed Bastani (Lund University, Sweden); Anders Plymoth (Maxentric Technologies, USA); Rickard Ljung (Sony Mobile, Sweden)

Special Session on Digital Platforms Economics and Regulation

Chair: *Alain Vallée (Innovation & Regulation in Digital Services Chair, France)*

Established companies are today facing new offers or new service delivery models that threaten their margins, their investment capacity, activity, if not ultimately their existence. Digital platforms are imposing new market structures while modifying the business competition rules. How to react toward these new entrants, which in some cases can be both competitors and partners? develop a very own platform? integrate products into a broader offer? rebuild margin to invest in the core business, what most platforms does not intend to do? New economic balances are to be founded...

This special session will help to clarify these issues, by focusing on one side on the economic theory that have explored the issues of two-sided or multi-sided markets for the development of platforms; and on the other side on the new challenges for regulators who must control the exercise of full and fair competition.

Special session – 16:30-17:40 – Wednesday 2

An Economic View

Marc Bourreau (Professor of Economics, Telecom ParisTech, France)

A Regulatory Viewpoint

Philippe Distler (Member of the Executive Board of the French Telecom Regulatory Body – ARCEP, France)

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ICIN 2016 Registration

	Registration Fees		
	Early Bird (On/by 31 Jan)	Regular (After 31 Jan)	On-Site (1/2/3 March)
Authors	€ 420.00	NA	NA
Participants	€ 490.00	€ 590.00	€ 780.00
Students	€ 260.00	€ 310.00	€ 350.00

* All prices are subject to French VAT at the standard rate of 20%

Discounts

See note 1	Student	60%
See note 2	Author & Co-Author	20%
See note 3	Endorsing Association	20%

* Discounts are not cumulative

* ICIN is supported by a number of Partner Associations. Corporate members of endorsing associations are entitled to a 20% discount.

Your registration fee includes:

AUTHORS, PARTICIPANTS, AND STUDENTS:

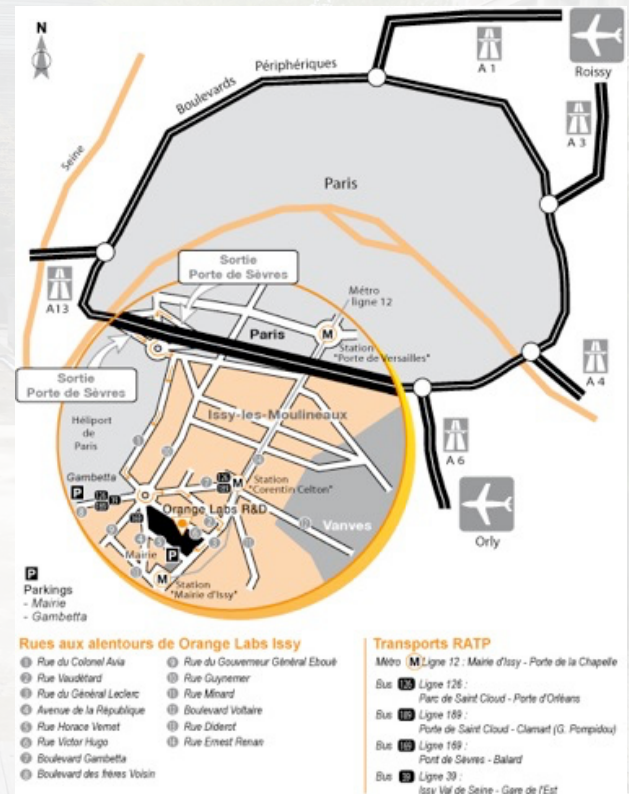
- Access to the conference, special session & tutorial
- Proceedings of the conference
- Coffee breaks and lunches

Cancellation of Conference Participation:

- Any cancellation must be sent upon written notification only. Any cancellation made after February 1st the fees will be due in total and no reimbursement possible.
- All authors must register before January 15th 2016

Conference Venue: Orange Labs

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ICIN 2016 Session Chairs



Prosper Chemouil
Orange Labs, France

Prosper Chemouil is graduated from Ecole Centrale de Nantes, France in 1975 and obtained a PhD in control theory in 1978. After a Post-doctoral visit to the University of Manchester (UK) sponsored by Inria, he joined the Centre National d'Études des Télécommunications (CNET) in 1980 where he led the Department on Network Traffic Engineering and Management. He is currently Director of Research Program in the area of Networks and Systems at Orange Labs, the R&D Centre of Orange. His interests are with the design and management Future Networks and their impact on network architecture, traffic engineering and quality of service (QoS).

Prosper has been very active on network management and traffic engineering issues in standardization bodies like ITU-T and he is involved in various collaborative projects. He is regularly invited to evaluate research projects in France and abroad. He has organized a number of international conferences and has been invited as guest-editor of Journals. Prosper Chemouil was awarded the Blondel Medal in 1996 for his contributions on Network Design and Management. He is an IEEE and SEE Fellow Member. In 2014, he has been the recipient of the Salah Aidarous Memorial Award by IEEE for his dedicated activity on Network Operations and Management, and in 2015 he has been the recipient of the Arne Jensen Lifetime Award for his exceptional contribution to traffic modeling, control and performance.



Françoise Soulié Fogelman
Tianjin University, China

Françoise Soulié Fogelman has over 40 years' experience in data mining, social network analysis and big data both in academia and industry. A former graduate from École Normale Supérieure, she holds a PhD from University of Grenoble, France. She was Professor at the University of Paris 11-Orsay, where she was advisor to 20 PhDs. She then funded a startup (Mimetics) to later join Atos (as head of a data mining – data warehouse group) and Business & Decision (as Partner) where she created and headed the CRM business unit. At KXEN, she has been Vice President Innovation until the company was bought out by SAP. Finally she

joined Institut Mines-Telecom where she worked for the Big Data platform TeraLab. She is presently Professor with the School of Computer Software at Tianjin University, China, head of the Data Science team. She has co-authored more than 120 scientific publications and 13 books. She is an expert for the European Commission and ANR.



Axel Küpper
TU Berlin, Germany

Axel Küpper is, since December 2009, a professor for Service-centric Networking at Telekom Innovation Laboratories, which is a public-private partnership of Deutsche Telekom AG and Technische Universität Berlin. Before, he was an assistant professor and research assistant at the Mobile and Distributed Systems Group at Ludwig-Maximilians-Universität München, where he received his postdoctoral lecture qualification. Prior to that, he was a research fellow at the Chair of Computer Science IV at Aachen University of Technology, where he received his Ph.D. and diploma (both in computer science). Axel Küpper acquired and worked on several

publicly and industry-funded projects, acted as a consultant for industry, and was a member of many program committees of national and international conferences. Furthermore, he was co-organizer of several IEEE workshops in the areas of Electronic Commerce and Mobile Computing. He authored several papers published in international conferences, books and magazine.



Payam Barnaghi
University of Surrey, UK

Payam Barnaghi is a Lecturer (Assistant Professor) at the Institute Communication Systems (ICS) at the University of Surrey. He is a senior member of IEEE, an associate editor of the IEEE Internet of Things Journal, and a guest editor of a special issue of the IEEE Intelligent Systems on Web of Things. He has been involved in organising several international conferences and workshops including being program co-chair of the IEEE UIC 2013, program vice-chair of the IEEE iThings2013, program co-chair of the SSN2013 workshop, and Mobile Web, Sensors and Semantic Streams track co-chair at ESWC 2013 and ESWC2014. He is a guest

editor of a planned special issue of the IEEE Internet Computing on Physical-Cyber-Social Computing. He is currently principal investigator and scientific coordinator of the EU FP7 CityPulse project (<http://www.ic-citypulse.eu>) on the Internet of Things and smart cities. His research interests include machine learning, Internet of Things, semantic web, web services, information centric networks and information search and retrieval.



Noël Crespi
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Prof. **Noël Crespi** holds Masters degrees from the Universities of Orsay (Paris 11) and Kent (UK), a diplôme d'ingénieur from Telecom ParisTech, a Ph.D and an Habilitation from Paris VI University (Paris-Sorbonne). From 1993 he worked at CLIP, Bouygues Telecom and then at Orange Labs in 1995. He took leading roles in the creation of new services with the successful conception and launch of Orange prepaid service, and in standardisation (from rapporteurship of IN standard to coordination of all mobile standards activities for Orange). In 1999, he joined Nortel Networks as telephony program manager, architecting core

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Alain Vallée
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Alain VALLEE spent most of his career in the telecommunications sector. He worked in Telecom operators strategic and regulatory departments in Europe. He also spent five years as head of the economic and forecasting department of the Direction de la Réglementation Générale of the French Ministry of Telecommunications. He did participate to the European Commission works.

He joined TELECOM ParisTech in 2007 as Associate Researcher. He contributed to the launch of the Innovation & Regulation in Digital Services Chair, chairing its Steering Committee.

He received a PhD degree (Management Sciences) from Paris Dauphine University (1980).



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