

# IEEE ISCC 2013

Program at a glance

## Sunday, July 7, 2013

	Room 2 – A301 <b>PEDISWESA Workshop</b>	Room 3 – A302 <b>MoCS Workshop</b>
8:30 - 16:30	Registration	
9:00 - 10:30	Workshop opening Session 1	
10:30 - 11:00	Coffee Break	Welcome Session 1
11:00 - 12:30	Session 2	
12:30 - 14:00	LUNCH Break	
14:00 - 15:30	Session 3 Panel session MoCS concluding remarks	Session 2
15:30 - 16:00		Coffee Break
16:00 - 17:30		Session 3

## Monday, July 8, 2013

8:00 - 18:30	Registration			
9:00 - 9:30	(Room 1 - A100) <b>OPENING SESSION</b>			
9:30 - 10:30	(Room 1 - A100) <b>PLENARY SESSION</b> Keynote Speaker: <b>Darko Huljentić</b> (Ericsson Nikola Tesla, Croatia) <b>SW engineering and ICT challenges in practice</b>			
10:30 - 11:00	Coffee Break			
	Room 2 – A301	Room 3 – A302	Room 4 – B401	Room 5 – B402
11:00 - 12:30	Session 1: <b>Network Reliability, QoS and QoE</b>	Session 2: <b>Green Networking and Smart Grid</b>	Session 3: <b>Security, Cryptography and Privacy I</b>	Session 4: <b>Internet of the Future</b>
12:30 - 14:00	Lunch Break			
14:00 - 15:00	(Room 1 - A100) <b>PLENARY SESSION</b> Keynote Speaker: <b>Piet Kommers</b> (University of Twente, the Netherlands) <b>Learning through Creativity</b>			
15:15 - 16:45	Session 5: <b>Wireless and Mobile Communications I</b>	Session 6: <b>Grid, Cluster and Cloud Computing</b>	Session 7: <b>Security, Cryptography and Privacy II</b>	Session 8: <b>Routing and Multicast I</b>
16:45 - 17:15	Coffee Break			
17:15 - 18:45	Session 9: <b>Wireless and Mobile Communications II</b>	Session 10: <b>Distributed Systems Architecture and Management</b>	Session 11: <b>Security, Cryptography and Privacy III</b>	Session 12: <b>Routing and Multicast II</b>
20:00 - 22:00	<b>ISCC 2013 Welcome Reception</b> (Basement of Diocletian's palace)			

## Tuesday, July 9, 2013

8:00 - 18:00	Registration			
9:00 - 10:00	(Room 1 - A100) <b>PLENARY SESSION</b> Keynote Speaker: <b>Milan Milenković</b> (Intel Labs, Intel Corporation, USA) <b>Pervasive sensing and IoT cooking recipe: just add people and applications</b>			
10:00 – 10:30	(Room 1) Presentation of <b>IEEE ISCC 2014</b>			
10:30 – 11:00	Coffee Break			
	Room 2 – A301	Room 3 – A302	Room 4 – B401	Room 5 – B402
11:00 – 12:30	Session 13: <b>Cognitive Radio Networking</b>	Session 14: <b>Peer-to-Peer Computing</b>	Session 15: <b>Services and Support for Smart Cities</b>	Session 16: <b>Next Generation Networks Infrastructures and Management I</b>
12:30 – 14:00	Lunch Break			
14:00 – 15:00	(Room 1 - A100) <b>PLENARY SESSION</b> Keynote Speaker: <b>Shie-Yuan Wang</b> (National Chiao Tung University, Taiwan) <b>Software-Defined Networking: Powered by EstiNet OpenFlow Network Simulator and Emulator</b>			
15:15 – 16:45	Session 17: <b>Wireless and Mobile Communications III</b>	Session 18: <b>Big Data, Data Mining and Database Applications</b>	Session 19: <b>Communications Services and Management</b>	Session 20: <b>Next Generation Networks Infrastructures and Management II</b>
16:45 – 17:15	Coffee Break			
17:15 – 18:45	Session 21: <b>Wireless and Mobile Communications IV</b>	Session 22: <b>Real Time Communication Services</b>	Session 23: <b>Modeling and Simulation</b>	Session 24: <b>Next Generation Networks Infrastructures and Management III</b>
<b>19:30 – 23:00</b>	<b>Conference Banquet</b> (Restaurant Gusar, Marjan)			

## Wednesday, July 10, 2013

8:00 - 12:00	Registration			
	Room 2 – A301	Room 3 – A302	Room 4 – B401	Room 5 – B402
9:00 - 9:45	(Room 1 - A100) <b>PLENARY SESSION</b> Keynote Speakers: <b>Ivica Puljak, Damir Lelas</b> (University of Split, Croatia) <b>Big data, big questions, some answers: discovery of the Higgs boson at the LHC</b>			
10:00 – 11:30	Session 25: <b>Sensor Networks and Mobile Sensing I</b>	Session 26: <b>Internet Services and Applications</b>	Session 27: <b>Image and Video Processing</b>	Session 28: <b>Network Design, Optimization, and Management I</b>
11:30 – 12:00	Coffee Break			
12:00 – 13:30	Session 29: <b>Sensor Networks and Mobile Sensing II</b>	Session 30: <b>Optical Networking</b>	Session 31/32: <b>Artificial Intelligent Systems /Software Engineering</b>	Session 33: <b>Network Design, Optimization, and Management II</b>
13:30 – 15:00	Lunch Break <b>Closing Plenary and Awards</b> (Moderator: <b>Christos Douligeris</b> )			

# GENERAL CHAIRS' MESSAGE

Welcome to the ISCC 2013: the eighteenth IEEE Symposium on Computers and Communications (ISCC), which is held on the premises of the University of Split in the beautiful, UNESCO-protected, Croatian city of Split, on Dalmatian coast.

ISCC continues to be a very special IEEE conference series with three main goals:

- ✓ to provide a forum for the presentation of high quality interdisciplinary work and the sparking of discussions on the various aspects of the convergence and the interplay between communications and computer technologies,
- ✓ to focus on practical problems as well as basic theoretical issues related to the analysis, design, deployment and utilization of information and networking systems,
- ✓ to create a congenial environment for the development of new friendships, and the reinvigoration of old co-operations among researchers and practitioners of many disciplines and from many countries around the world.

The ISCC series takes place in the beautiful countries that surround the Mediterranean. Egypt, Greece, France, Tunisia, Spain, Morocco, Italy, and Turkey have hosted ISCC since its beginnings in 1995. In 2013, the city of Split, Croatia, is hosting the event. Split carries a long history that is evident in its monuments, civil architecture, public buildings and churches as well in the friendliness and openness of its people. We strongly believe that the city of Split provides an excellent place to interact, socialize and develop friendships.

We would like to thank the authorities of the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture who have offered the premises of the University to have the conference. The members of the local organizing committee, consisting mainly from faculty and staff of the University have spent numerous hours to make sure that every single detail has been taken into account and that the experience of the participants is unique.

The distinguished co-chairs of the technical program committee, Hrvoje Dujmić, (University of Split, Croatia), Ivona Brandic, (Vienna University of Technology, Austria), Tajana Rosing, (University of California, USA), Stipe Čelar, (University of Split, Croatia) did a wonderful job coordinating the review of the more than 330 papers submitted to ISCC 2013. In particular, we would like to highlight the long hours put by Hrvoje and Stipe in the running of the conference which exceeded the narrowly defined duties of a TPC co-chair. With the tireless efforts of the illustrious members of the technical program committee and the help of many other volunteer reviewers, the TPC co-chairs undertook the daunting task of making sure that each paper received at least three thorough reviews and of rigorously selecting about half of these papers to form a technically strong and well-balanced program.

The success of ISCC is due in great part to the invaluable efforts of many other volunteers.

The Financial and Registration Chair, Reda Ammar, ensured that the conference is taking place in the best possible financial environment, through proper budgeting and an unparalleled affinity for sensible prioritization.

The Keynote Chairs have managed to gather a highly respected panel of speakers from industry and academia in some of the hottest topics in information and communication technologies. We would like to thank the keynote speakers for honoring ISCC 2013 with their presence and speeches. The Workshop Chairs have tirelessly worked to have two workshops co-located with ISCC 2013 (special thanks are due to all the workshop chairs for honoring us with their participation). Our publication chair has made all the necessary efforts to ensure that the proceedings conform to the standards imposed by IEEE. In the age of connectivity, the Web chairs provided support efficiently and effectively. The publicity chairs were instrumental in making ISCC 2013 known to the widest possible audience.

The untimely and tragic loss of Dr. Chatschik Bisdikian, IBM, USA, brought a great grief to all of us. His efforts in creating a constructive research environment and to encourage young professionals to innovate and be creative will be always remembered.

We should also mention the continuous support of all the members of the steering committee, thank them for trusting us to organize this conference and to appreciate their participation in our long phone conferences and their continuous suggestions and innovative ideas.

After a long year of handling organizational issues and trying to solve small or larger problems it is a real pleasure to host all the speakers, participants and volunteers in Split. We are sure that during the days of the conference we will have to prove that all this work has not been in vain. We are looking forward to meeting all of you, the participants and attendees of the conference, and to grasp the opportunity for further interactions and exchanges.

Your feedback is welcome to continuously improve the quality of the conference. We need your help for that and we are sure you won't be disappointed!

Additional information on the past and future conferences, as well as on how to participate in the activities is available at the permanent web site of the conference at <http://www.comsoc.org/iscc>. We welcome participation from everyone to further enlarge the ISCC community.

Enjoy ISCC 2013 and your stay in Split.

The General co-Chairs of ISCC 2013

Christos Douligeris  
University of Piraeus, Greece

Sven Gotovac,  
University of Split, Croatia

Milan Vojnović,  
Microsoft Research, UK

## TPC CHAIRS' MESSAGE

The IEEE symposium on Computers and Communications started in 1995 in response to the growing interaction between the fields of computers and communications. ISCC takes place annually, typically in the beginning of July. Symposium locations include countries in the Mediterranean region.

This year, it is our pleasure to welcome you to the University of Split, Faculty of electrical engineering, mechanical engineering and naval architecture in Split, Croatia. Split has lived its urban rhythm for as long as 1700 years, with its heart in the Diocletian Palace and its soul widespread to embrace you. The city is protected by the UNESCO and entered into the register of the World Cultural Heritage. It is university, industrial and business center of Dalmatia with warm, Mediterranean temper.

For the ISCC 2013 main conference, 302 papers written by 777 authors from 48 countries were submitted. Each of these papers was reviewed by at least three reviewers. Overall, 389 reviewers wrote 1095 reviews (3.63 per paper). We would like to wholeheartedly thank all reviewers for fantastic job providing detailed reviews of the submitted papers. We are aware that it is time consuming job, but reviewing is crucial for the success of the conference.

Although many high – quality papers were submitted, finally 147 contributions were accepted and published, whose presentation at the conference was divided into 33 oral sessions.

Additionally to the main conference, two workshops are organized with 16 accepted papers: Third IEEE International Workshop on Management of Cloud Systems (MoCS 2013) and Fifth IEEE International Workshop on Performance Evaluation of Communications in Distributed Systems and Web based Service Architectures (PEDISWESA'13).

We are honored that we have five excellent keynote speeches: Darko Huljenić (SW engineering and ICT challenges in practice); Milan Milenković (Pervasive sensing and IoT cooking recipe: just add people and applications); Piet Kommers (Learning through Creativity); Shie-Yuan Wang (Software-Defined Networking: Powered by EstiNet OpenFlow Network Simulator and Emulator); Ivica Puljak, Damir Lelas (Big data, big questions, some answers: discovery of the Higgs boson at the LHC).

We wish you a warm welcome and a pleasant stay in Split, Croatia.

## Keynote Speakers

Keynote Speakers Session Co-Chairs:

Christos Douligeris (University of Piraeus, Greece), Sven Gotovac (University of Split, Croatia)

### SW engineering and ICT challenges in practice

**Darko Huljenić, PhD**

Adjunct Associate Professor, Ericsson Nikola Tesla, Zagreb, Croatia



**Biography:** Dr. Darko Huljenić is manager for technology and scientific activities at Ericsson Nikola Tesla in Zagreb, Croatia. At the same time he is working as Adjunct Associate Professor at University of Zagreb, Faculty of electrical engineering and computing, teaching at undergraduate and doctoral study. He is working for more than 25 years in the industry dealing with software and network architecture research, and products creating and delivery. He participates in EU FP7 projects. His main research interests are software engineering, software architecture, and new telecom network architecture. He has more than sixty Journal and conference papers, and holds two patents. He is member of technical committees at different international conferences and workshops. He is member of IEEE Communications and Computer society, and member of ACM. He has PhD and MS degree from University of Zagreb, Faculty of electrical engineering and computing.

### Pervasive sensing and IoT cooking recipe: just add people and applications

**Dr. Milan Milenković, Principal Engineer**

Intel Labs, Intel Corporation, Santa Clara, CA, USA



**Biography:** Milan Milenković is a Principal Engineer in Intel Labs, Santa Clara, CA. He has worked in industry and academia, doing research on distributed computing, operating systems, real-time embedded systems, and a variety of emerging technologies. He is currently the principal investigator of the POEM project that explores uses of dynamic personal sensing. Prior to Intel he worked at IBM and taught at several universities. Milan earned M.Sc. degree in Computer Science from Georgia Institute of Technology and a Ph.D. in Computer Engineering from the University of Massachusetts at Amherst. He has published a number of papers, several books, including Operating Systems: Concepts and Design published by McGraw-Hill in two US and several international editions, and holds 4 patents with several more in submission. He is an ACM Distinguished Engineer.

### Software-Defined Networking: Powered by EstiNet OpenFlow Network Simulator and Emulator

**Dr. Shie-Yuan Wang, Professor**

National Chiao Tung University, Taiwan



**Biography:** Dr. Shie-Yuan Wang is a Professor of the Department of Computer Science at National Chiao Tung University (NCTU), Taiwan. He received his master and Ph.D. degrees in computer science from Harvard University in 1997 and 1999, respectively. His research interests include wireless networks, operating systems, network simulation, and cloud computing. He received the “Outstanding Information Technology Elite Award” of Taiwan R.O.C. government in 2012, bestowed by the Vice President of Taiwan R.O.C. government. The NCTUs/EstiNet network simulator and emulator, which he has been developing with his lab students since 1999, also won the “Outstanding Information Technology Product/Application Award” of Taiwan R.O.C. government in 2012, which was bestowed by the Minister of Economic Affairs of Taiwan R.O.C. government. At present, EstiNet OpenFlow network simulator and emulator is ranked #1 in the “OpenFlow network simulator” search

results returned from the Google search engine.

## Learning through Creativity

**P.A.M. Kommers, Dr., Piet**

Associate Professor, University of Twente, the Netherlands



**Biography:** Dr. Piet Kommers is an early pioneer in media for cognitive- and social support. His doctoral research explored methods for hypertext and concept mapping in learning. Since 1982 he developed educational technology as an engineering approach for learning and teaching. His main thesis is that technology is catalytic for human ambition and awareness. His main function is associate professor in the University in Twente, The Netherlands and adjunct/visiting professor in various countries. He taught more than fifteen bachelor-, master- and PhD courses and supervised more than 30 PhD students. He instigated and coordinated the NATO Advanced Research Workshop on Cognitive Technologies in 1990 and a large series of Joint European Research Projects in: authoring multimedia, web-based learning, teacher education, virtual 3d worlds, constructivist learning, social media, web-based communities and international student exchange. UNESCO awarded his work in ICT for Education in Eastern Europe with the title of

Honorary Professor. The Capital Normal University in Beijing awarded his work with the title of Honorary Doctor. He is member of advisory boards in ministries of education and academia of sciences in Singapore, Finland and Russia. Piet Kommers is the initiator of the "International journal for web-based communities" and overall chair of the "IADIS conferences on societal applications of ICT". Since the late nineties he gave more than 40 invited and keynote lectures at main conferences in the fields of education, media and communication. His books and journal articles address the social and intellectual transformations at each transition from "traditional" into the "new" media. Instead of regarding media as extrapolating, supplanting, vicarious or even disruptive, Piet's view is that new media elicit and seduce both individuals and organizations to reconsider the essence of human nature and challenge existential awareness at that very moment.

## Big data, big questions, some answers: discovery of the Higgs boson at the LHC

**Ivica Puljak, Damir Lelas**

University of Split, Croatia



**Biography:** Ivica Puljak is Professor of physics at University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB). He completed his BSc studies in electrical engineering at FESB and MSc studies in particle physics at University of Zagreb. He has been working for his PhD thesis at Laboratory Leprince Ringuet (LLR) at Ecole Polytechnique, Palaiseau, and got his PhD in particle physics from University Paris VI in 2000. He is a member of CMS collaboration since 1994 and MAGIC collaboration since 2009. His research interests are construction of the electromagnetic calorimeter of the CMS detector, search for the Higgs boson and astroparticle physics. In 2011/2012 he was research associate at CERN and was a convener of a search for the Higgs boson through the decay channel to four leptons, one of the main channels for the Higgs boson discovery.



**Biography:** Damir Lelas is assistant professor of physics at University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB). He graduated physics at University of Zagreb. He obtained his PhD at University of Hamburg in 2004 in high energy physics, analyzing data of the HERA accelerator. From 2004 till 2008, as a part of postdoctoral research at LAL Orsay, France and University of Victoria, Canada, he was member of the ATLAS collaboration at CERN working on the aspects of electron reconstruction and on preparation for data analysis at the LHC. Since 2009, Damir Lelas joined FESB and is now member of the CMS collaboration at CERN working on the aspects of the electron reconstruction and Higgs physics. He is also member of the MAGIC collaboration.

# Workshops

## Third IEEE International Workshop on Management of Cloud Systems (MoCS 2013)

Sunday, July 7, 2013

**9:00-10:30 (Room 2)**

**Workshop opening & Session 1**

**Session Chair:** Luca Foschini (University of Bologna, Italy)

- *Workshop opening*
- *Smart Data Centers for Green Clouds*, Dario Bruneo (University of Messina, Italy); Maria Fazio (University of Messina, Italy); Francesco Longo (Universita di Messina, Italy); Antonio Puliafito (University of Messina, Italy)
- *Empirical Evaluation of Vector Bin Packing Algorithms for Energy Efficient Data Centers*, Lei Shi (Waterford Institute of Technology, Ireland); Runxin Wang (Waterford Institute of Technology, Ireland)

**10:30-11:00**

**Coffee Break**

**11:00-12:30 (Room 2)**

**Session 2**

**Session Chair:** Massimo Villari (University of Messina, Italy)

- *A Practical Approach to Easily Monitor and Manage IaaS Environments*, Paolo Bellavista (University of Bologna, Italy); Carlo Giannelli (University of Bologna, Italy); Massimiliano Mattetti (University of Bologna, Italy)
- *QoS-Oriented Service Management in Large Scale Federated Clouds*, Dimosthenis Kyriazis (National Technical University of Athens, Greece); Andrew Kapsalis (National Technical University of Athens, Greece); Konstantinos Kostantos (National Technical University of Athens, Greece); Spyridon V Gogouvitis (National Technical University of Athens, Greece); Theodora Varvarigou (National Technical University of Athens, Greece)
- *Dynamic Cloud Management for Efficient Stream Processing*, Luca Foschini (University of Bologna, Italy); Burak Kantarci (University of Ottawa, Canada); Antonio Corradi (University of Bologna, Italy); Hussein T Mouftah (University of Ottawa, Canada)

**12:30-14:00**

**Lunch Break**

**14:00-15:30 (Room 2)**

**Session 3 & Panel session & Concluding remarks**

**Session Chair:** Antonio Corradi (University of Bologna, Italy)

- *SE CLEVER: A Secure Message Oriented Middleware for Cloud Federation*, Massimo Villari (University of Messina, Italy); Maria Fazio (University of Messina, Italy); Antonio Celesti (University of Messina, Italy)
- *Panel session*
- *MoCS concluding remarks*

# Fifth IEEE International Workshop on Performance Evaluation of Communications in Distributed Systems and Web based Service Architectures (PEDISWESA'13)

Sunday, July 7, 2013

## 10:30-10:45 (Room 3) - WELCOME

**Dr. Narayan Debnath** (Winona state University, USA) and  
**Dr. Hacene Fouchal** (Université de Reims Champagne-Ardenne, France)

## 10:45-12:30 (Room 3) - SESSION 1

**Session Chair: Dr. Ramzi A. Haraty** (Lebanese American University, Lebanon)

- *Vehicular Communication Projects Classification And Evaluation*, Bandar Alghamdi (Université de Reims Champagne-Ardenne, France); Hacene Fouchal (Université de Reims Champagne-Ardenne, France)
- *Dynamic Query Path Selection from Lattice of Cuboids Using memory Hierarchy*, Santanu Roy (Future Institute of Engineering & Management, India); Soumya Sen (University of Calcutta, India); Anirban Sarkar (National Institute of Technology-Durgapur, India); Nabendu Chaki (University of Calcutta, India); Narayan C. Debnath (Winona State University, USA)
- *Data collection for counting individuals and habitat characterization*, Nathalie Dessart (University of Antilles Guyane, France); Philippe Hunel (University of Antilles Guyane, France); Jean-Raphel Gros-Desormeaux (University des Antilles et de la Guyane, France)
- *Role-Based Access Control Modeling and Validation*, Ramzi A. Haraty (Lebanese American University, Lebanon)

**12:30-14:00**

**Lunch Break**

## 14:00-15:30 (Room 3) - SESSION 2

**Session Chair: Dr. Philippe Hunel** (University of Antilles Guyane, France)

- *Data protection in Multipaths WSNs*, Quentin Monnet (University of Paris-Est, France); Lynda Mokdad (Université de Paris 12, France); Jalel Ben-Othman (University of Paris 13, France)
- *Energy, QoS and Bursts Profile Management in Uplink IEEE 802.16e Mobile WiMAX Networks*, Khalil Ibrahim (University of Ibn Tofail, Morocco); Fatima Zahra Ennouary (LARIT-Kenitra, Morocco); Houssine Bouyakhf (Université Mohammed V Agdal, Morocco)
- *Design Graph Multi-Dimensional Data Model of a Data Warehouse and conversion of its equivalent Object - Oriented Schema*, Sk. Abdul Rahim (Bengal College of Engineering & Technology, India); Baisakhi Chakraborty (National Institute of Technology-Durgapur, India); Joyati Debnath (Winona State University, USA); Narayan Debnath (Winona State University, USA)

**15:30-16:00**

**Coffee Break**

## 16:00-17:30 (Room 3) - SESSION 3

**Session Chair: Dr. Narayan Debnath** (Winona State University, USA)

- *Performance and Reliability Analysis of Small Cell Networks with Retrials and Different Breakdowns Disciplines: A Computational Approach*, Nawel Gharbi (University of Sciences and Technology USTHB, Algeria); Lynda Mokdad (Université de Paris 12, France); Jalel Ben-Othman (University of Paris 13, France)
- *An Improved Authentication Scheme for Applying RFID in VANETs*, Qingwei Zhang (University of Ottawa, Canada); Mohammed Almulla (Kuwait University, Kuwait); Azzedine Boukerche (University of Ottawa, Canada)
- *Hierarchical Pruning to Improve Bandwidth Utilization of RPF-based Broadcasting*, Sindooru Koneru (Southern Illinois University, USA); Bidyut Gupta (Southern Illinois University, USA); Shahram Rahimi (Southern Illinois University, USA); Ziping Liu (Southeast Missouri State University, USA); Narayan Debnath (Winona State University, USA)



# Detailed Program

Monday, July 8, 2013

**9:15-9:30, Room 1**

**OPENING SESSION**

Christos Douligeris (University of Piraeus, Greece), Sven Gotovac (University of Split, Croatia),  
Milan Vojnović (Microsoft Research, United Kingdom) (IEEE ISCC 2013 General Co-Chairs)

**9:30-10:30, Room 1**

**PLENARY SESSION**

Keynote Speaker: **Darko Huljениć** (Ericsson Nikola Tesla, Zagreb, Croatia)

**10:30-11:00**

**Coffee Break**

**11:00-12:30, Room 2**

**Session 1: Network Reliability, QoS and QoE**

**Session Chair:** Mike Burmester (Florida State University, USA)

1. *Performance analysis of Crosspoint Queued Crossbar Switch with Weighted Round Robin scheduling algorithm under Unbalanced Bursty Traffic*, Soko Divanovic (Telecommunications and Computer Engineering, Montenegro); Milutin Radonjic (University of Montenegro, Montenegro); Gordana Gardasevic (University of Banja Luka, Bosnia and Herzegovina); Igor Radusinovic (University of Montenegro, Montenegro)
2. *A Collision Prevention Mechanism for the Multicast Transport in IEEE 802.11 Networks*, Yousri Daldoul (LaBRI - University of Bordeaux 1, France); Djamal-Eddine Meddour (Orange Labs, France); Toufik Ahmed (University of Bordeaux-1 / CNRS-LaBRI, France)
3. *An Analytical Comparison of the Block NAK Protocol and the IEEE 802.11aa Feedback Policy for a Reliable Multicast Transport in the WLAN*, Yousri Daldoul (LaBRI - University of Bordeaux 1, France); Toufik Ahmed (University of Bordeaux-1 / CNRS-LaBRI, France); Djamal-Eddine Meddour (Orange Labs, France)
4. *An Objective Multi-factor QoE Evaluation Based on Content Classification for H.264/AVC Encoded Video*, Jichun Liu (Beijing University of Posts and Telecommunications, P.R. China); Yang Geng (Beijing University of Posts and Telecommunications, P.R. China); Deyuan Wang (Beijing University of Posts and Telecom., P.R. China); Li Wenjing (Beijing University of Posts and Telecom., P.R. China); Qiu Xue-song (Beijing University of Posts and Telecom., P.R. China)
5. *T-ABAC: An Attribute-Based Access Control Model for Real-Time Availability in Highly Dynamic Systems*, Mike Burmester (Florida State University, USA); Emmanouil Magkos (Ionian University, Greece)

**11:00-12:30, Room 3**

**Session 2: Green Networking and Smart Grid**

**Session Chair:** Roberto Canonico (University of Napoli Federico II, Italy)

1. *Energy Routing in the Smart Grid for Delay-Tolerant Loads and Mobile Energy Buffers*, Melike Erol-Kantarci (University of Ottawa, Canada); Jahangir H. Sarker (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)
2. *Reliable Data Transfer Mechanisms for Smart Grid Wide Area Monitoring Networks*, M Karthick (Indian Institute of Technology Madras, India); Muthukumar Radhakrishnan (Indian Institute of Technology Madras, India); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)
3. *Residential Energy Simulation and Scheduling: A Case Study Approach*, Jagannathan Venkatesh (UCSD, USA); Baris Aksanli (UCSD, USA); Tajana Simunic Rosing (UCSD, USA)
4. *From Adaptive to Sufficient Modulation and Coding: Demand Oriented Mobile Power Optimization*, Tugra Sahiner (Istanbul Technical University, Turkey); Gunes Karabulut Kurt (Istanbul Technical University, Turkey); Aysegul Ozbakir (Yildiz Technical University, Turkey)
5. *O-Genie: towards an open green network control plane*, Pasquale Donadio (Alcatel-Lucent Italia, Italy); Silvia Russo (University of Napoli Federico II, Italy); Roberto Canonico (University of Napoli Federico II, Italy); Giorgio Ventre (University of Napoli Federico II, Italy)

**11:00-12:30, Room 4**

**Session 3: Security, Cryptography and Privacy I**

**Session Chair:** Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)

1. *Efficient Fingerprint Extraction for High Performance Intrusion Detection System*, Haiyang Jiang (Institute of Computing Technology, CAS, P.R. China); Gaogang Xie (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Kavé Salamati (LISTIC PolyTech, Université de Savoie Chambéry Annecy, France)
2. *Assessing Trust in the Long-Term Protection of Documents*, Martin Vigil (Technische Universität Darmstadt, USA); Daniel Cabarcas (Technische Universität Darmstadt, Germany); Jingwei Huang (University of Illinois at Urbana-Champaign, USA); Johannes Buchmann (Technische Universität Darmstadt, Germany)
3. *SAnoVS: Secure Anonymous Voting Scheme for Clustered Ad Hoc Networks*, Nikos Komninos (University of Cyprus, Cyprus); Christos Tselikis (University of Piraeus, Greece); Christos Douligeris (University of Piraeus, Greece)
4. *Improving the efficiency of the LDPC code-based McEliece cryptosystem through irregular codes*, Marco Baldi (Università Politecnica delle Marche, Italy); Marco Bianchi (Università Politecnica delle Marche, Italy); Nicola Maturo (Università Politecnica delle Marche, Italy); Franco Chiaraluce (Università Politecnica delle Marche, Italy)
5. *Evaluation of IPv6 with IPsec in 802.11n WLAN Using Fedora 15 Operating System*, Samad Salehi Kolahi (Unitec Institute of Technology, New Zealand); Yuqing Cao (Unitec, New Zealand); Hong Chen (Unitec, New Zealand)

**11:00-12:30, Room 5**

**Session 4: Internet of the Future**

**Session Chair:** Florian Skopik (Austrian Institute of Technology, Austria)

1. *A Truly Scalable IP Lookup Algorithm for Next Generation Internet*, Yi Dai (National University of Defense Technology, P.R. China)
2. *Over-provisioning Centric Network Resource Control in Future Internet Systems*, Sandino Jardim (Federal University of Goiás, Brazil); Augusto Jose Venancio Neto, Ph. D. (Universidade Federal do Rio Grande do Norte, Brazil); José Castillo Lema (Universidade da Coruña, Spain); Eduardo Cerqueira (Federal University of Para & UFPA, Brazil); Felipe Sampaio Dantas da Silva (Federal University of Rio Grande do Norte, Brazil)
3. *Characterizing and Analysis of the Flattening Internet Topology*, Zhengwei Zhao (Chinese Academy of Sciences, P.R. China); Jingping Bi (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
4. *Composition of Services in Pervasive Environments: A Divide and Conquer Approach*, Gilbert Cassar (University of Surrey, United Kingdom); Payam Barnaghi (University of Surrey, United Kingdom); Wei Wang (University of Surrey, United Kingdom); Suparna De (University of Surrey, United Kingdom); Klaus Moessner (University of Surrey, United Kingdom)
5. *Trustworthy Incident Information Sharing in Social Cyber Defense Alliances*, Florian Skopik (Austrian Institute of Technology, Austria); Qin Li (Nanyang Technological University, Singapore)

**12:30-14:00**

**Lunch Break**

**14:00-15:00, Room 1**

**PLENARY SESSION**

**Keynote Speaker:** Piet Kommers (University of Twente, the Netherlands)

**15:15-16:45, Room 2**

**Session 5: Wireless and Mobile Communication I**

**Session Chair:** Ferhat Khendek (Concordia University, Canada)

1. *Iterative Contending-user Estimation Method for OFDMA Wireless Networks with Bursty Arrivals*, Ray-Guang Cheng (National Taiwan University of Science and Technology, Taiwan); Chia-Hung Wei (National Taiwan University of Science and Technology, Taiwan); Shiao-Li Tsao (National Chiao Tung University, Taiwan)
2. *Comparison of Methods for Accelerating the Response Time of TCP Sessions over Long Delay Paths*, Ahmed Tambuwal (University of Aberdeen, United Kingdom); Gorry Fairhurst (University of Aberdeen, United Kingdom); Raffaello Secchi (University of Aberdeen, United Kingdom)
3. *Real-life Multipath TCP based Make-Before-Break Vertical Handover*, Jari Kellokoski (University of Jyväskylä, Finland)
4. *On Delay-Aware Joint Uplink/Downlink Resource Allocation in OFDMA Networks*, Ahmad El-Hajj (American University of Beirut, Lebanon); Zaher Dawy (American University of Beirut, Lebanon)
5. *An Improved Method for Reconstruction of Channel Taps in OFDM Systems*, Yanhong Ju (Beijing University of Posts and Telecom., P.R. China); Sun Songlin (Beijing University of Posts and Telecom., P.R. China); Fei Qi (Beijing University of Posts and Telecom., P.R. China); Xiao Jun Jing (Collaborative, P.R. China); Yueming Lu (Beijing University of Posts and Telecom., P.R. China); Na Chen (Beijing University of Posts and Telecom., P.R. China)

**15:15-16:45, Room 3**

**Session 6: Grid, Cluster and Cloud Computing**

**Session Chair:** Reda Ammar (University of Connecticut, USA)

1. *A Model for Estimating Energy Consumption based on Resources Utilization*, Lucas Venezian (UFSCAR, Brazil); Pedro Bignatto Junior (UFSCAR, Brazil); Carlos Monteiro (UFSCAR, Brazil); Daniel Mueller (UFSCAR, Brazil); Cesar A Marcondes (UCLA, USA); Hermes Senger (Federal University of Sao Carlos, Brazil)
2. *Fast GPU Algorithms for Implementing the Red-Black Gauss-Seidel Method for Solving Partial Differential Equations*, Mahmoud ElMaghraby (University of Connecticut, USA); Reda Ammar (University of Connecticut, USA); Sanguthevar Rajasekaran (University of Connecticut, USA)
3. *A Comprehensive Approach to Reduce the Energy Cost of Network of Datacenters*, Baris Aksanli (UCSD, USA); Jagannathan Venkatesh (UCSD, USA); Tajana Simunic Rosing (UCSD, USA); Inder Monga (Energy Sciences Network, USA)
4. *SRIDesk: A Streaming based Remote Interactivity Architecture for Desktop Virtualization System*, Jiewei Wu (Shanghai Jiao Tong University, P.R. China); Jiajun Wang (Shanghai Jiao Tong University, P.R. China); Zhengwei Qi (Shanghai Jiao Tong University, P.R. China)\*

**15:15-16:45, Room 4**

**Session 7: Security, Cryptography and Privacy II**

**Session Chair:** Christos Douligeris (University of Piraeus, Greece)

1. *A Practical Viewpoint on the Performance of LDPC Codes over the Fast Rayleigh Fading Wire-Tap Channel*, Marco Baldi (Università Politecnica delle Marche, Italy); Marco Bianchi (Università Politecnica delle Marche, Italy); Nicola Maturo (Università Politecnica delle Marche, Italy); Franco Chiaraluce (Università Politecnica delle Marche, Italy)
2. *Secure and Revocable Node Authentication in Vehicular Ad-Hoc Networks*, Jenny Torres (Université Pierre et Marie Curie, France); Michele Nogueira (Federal University of Parana, Brazil); Guy Pujolle (Université Pierre et Marie Curie - Paris 6, France)
3. *End-to-End Authentication in Under-Water Sensor Networks*, Evaldo Souza (Universidade Federal de Minas Gerais, Brazil); Hao Wong (Intel Corporation, USA); Italo Cunha (Universidade Federal de Minas Gerais, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Luiz F. M. Vieira (Universidade Federal de Minas Gerais, Brazil); Leonardo Oliveira (Federal University of Minas Gerais, Brazil)
4. *A Method for Improving Mobile Authentication Using Human Spatio-Temporal Behavior*, Yusuf Albayram (University of Connecticut, USA); Sotirios Kentros (University of Connecticut, USA); Ruhua Jiang (University of Connecticut, USA); Athanasios Bamis (University of Connecticut, USA)
5. *Sensor Swarm Query Filtering: Heightened Attack Resilience for Broadcast on-Demand Services*, Christos Liaskos (Aristotle University, Greece); Georgios Papadimitriou (Aristotle University, Greece); Christos Douligeris (University of Piraeus, Greece)

**15:15-16:45, Room 5**

**Session 8: Routing and Multicast I**

**Session Co-Chair:** Azzedine Boukerche (University of Ottawa, Canada)

**Session Co-Chair:** Julije Ožegović (University of Split, Croatia)

1. *On Using Cooperative Game Theory to Solve the Wireless Scalable Video Multicasting Problem*, Su Luo (Beijing University of Posts and Telecommunications, P.R. China); Sun Songlin (Beijing University of Posts and Telecommunications, P.R. China); Xiao Jun Jing (Collaborative, P.R. China); Yueming Lu (Beijing University of Posts and Telecommunications, P.R. China); Na Chen (Beijing University of Posts and Telecommunications, P.R. China)
2. *BAMcast - Byzantine Fault-Tolerant Consensus Service for Atomic Multicast in Large-scale Networks*, Marcelo Silva (UFSC, Brazil); Lau Cheuk Lung (UFSC, Brazil); Leandro Magnabosco (Federal University of Santa Catarina, Brazil); Luciana Rech (Universidade Federal de Santa Catarina, Brazil)
3. *MLSA: A Link-State Multipath Routing Algorithm*, Haijun Geng (Tsinghua University, P.R. China); Xia Yin (Tsinghua University, P.R. China); Xingang Shi (Tsinghua University, P.R. China); Zhiliang Wang (Tsinghua University, P.R. China)
4. *A weighted QoS aware multipath routing process in Mobile Ad hoc Networks*, Mariem Thaalbi (SUP'COM, Tunisia); Nabil Tabbane (SUP'COM, Tunisia); Tarek Bejaoui (University of Paris-Sud 11, France); Ahmed Meddahi (Institut Mines Telecom/Telecom Lille 1, France)
5. *Greedy Routing and Data Aggregation in Wireless Sensor Networks*, Moyses M. Lima (Federal University of Amazonas, Brazil); Horacio Oliveira (Universidade Federal do Amazonas, Brazil); Eduardo Freire Nakamura (FUCAPI - Research and Technological Innovation Center, Brazil); Leandro N. Balico (Federal University of Amazonas - UFAM, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)

**16:45-17:15**

**Coffee Break**

**17:15-18:45, Room 2**

**Session 9: Wireless and Mobile Communication II**

**Session Chair:** Matko Šarić (University of Split, Croatia)

1. *Abrupt Ending of 802.11 AP Connections*, Dossa Massa (University of Porto & INESC Porto, Portugal); Ricardo Morla (INESC Porto and Faculty of Engineering, University of Porto, Portugal)
2. *A Cooperative Approach to Fully Utilizing the Aggregate Bandwidth of All Service Channels in IEEE 802.11p/1609 Networks*, Shie-Yuan Wang (National Chiao Tung University, Taiwan); Hung-Wei Chiu (National Chiao Tung University, Taiwan); Jie Zheng (Xi'an Jiaotong University, P.R. China); Xiao Chen (Dalian University of Technology, P.R. China)
3. *Lifetime-optimal Transmission Scheduling for Cluster-based Routing in Cooperative Networks*, Yujian Wang (Alcatel-Lucent Shanghai Bell Co., P.R. China); Bin Zhao (Alcatel-Lucent Shanghai Bell Co., P.R. China); Weihua Huang (Alcatel-Lucent Shanghai Bell Co., P.R. China); Wenjun Sun (University of Science & Technology of China, P.R. China)
4. *A DNS Protocol - Based Service Discovery Architecture for Disaster Response Systems*, Mohammadmajid Hormati (Concordia University, Canada); Fatna Belqasmi (Concordia University, Canada); Roch Glitho (Concordia University, Canada); Ferhat Khendek (Concordia University, Canada)
5. *Adaptive Contact Volume Prediction in Delay Tolerant Networks*, João Batista Pinto, Nt. (Ministerio Publico do Estado de Rondonia, Brazil); Moyses M. Lima (Federal University of Amazonas, Brazil); Edjair S. Mota (Federal University of Amazonas, Brazil); Eduardo Cerqueira (Federal University of Para & UFPA, Brazil); Leandro N. Balico (Federal University of Amazonas - UFAM, Brazil)

**17:15-18:45, Room 3**

**Session 10: Distributed Systems Architecture and Management**

**Session Chair:** Stipe Čelar (University of Split, Croatia)

1. *Data Distribution Service (DDS): A Performance Comparison of OpenSplice and RTI Implementations*, Luca Foschini (University of Bologna, Italy); Paolo Bellavista (University of Bologna, Italy); Antonio Corradi (University of Bologna, Italy); Alessandro Pernaflini (University of Bologna, Italy)
2. *Leveraging Memory Mirroring for Transparent Memory Scale-Out with Zero-Downtime Failover for Remote Hosts*, Roei Tell (SAP Research, Israel); Peter Izsak (SAP Research, Israel); Aidan Shribman (SAP Research & SAP, Israel); Steve Walsh (SAP Research, United Kingdom); Benoit Hudzia (SAP Research & SAP AG, United Kingdom)
3. *Tie-set Based Fault Tolerance for Autonomous Recovery of Double-Link Failures*, Kiyoshi Nakayama (University of California, Irvine & Donald Bren School of Information and Computer Sciences, USA); Kyle E Benson (University of California, Irvine, USA); Vahe Avagyan (University of California, Irvine, USA); Michael B Dillencourt (University of California, Irvine, USA); Lubomir Bic (University of California, Irvine, USA); Nalini Venkatasubramanian (University of California, Irvine, USA)
4. *Byzantine Fault-Tolerant State Machine Replication with Twin Virtual Machines*, Fernando Dettoni (Federal University of Santa Catarina, Brazil); Lau Cheuk Lung (UFSC, Brazil); Miguel Correia (IST/INESC-ID, Portugal); Aldelir Fernando Luiz (Federal University of Santa Catarina, Brazil)

**17:15-18:45, Room 4**

**Session 11: Security, Cryptography and Privacy III**

**Session Chair:** Liam Keliher (Mount Allison University, Canada)

1. *An Accountable Security Mechanism based on Security Service Level Agreement*, Takeshi Takahashi (National Institute of Information and Communications Technology, Japan); Joona Kannisto (Tampere University of Technology, Finland); Seppo Heikkinen (Tampere University of Technology, Finland); Bilhanan Silverajan (Tampere University of Technology, Finland); Marko Helenius (Tampere University of Technology, Finland); Shin'ichiro Matsuo (National Institute of Information and Communications Technology, Japan); Jarmo Harju (Tampere University of Technology, Finland)
2. *Combining Conjunctive Rule Extraction with Diffusion Maps for Network Intrusion Detection*, Antti Juvonen (University of Jyväskylä, Finland); Tuomo Sipola (University of Jyväskylä, Finland)
3. *A Policy-Based Architecture for Web Services Authentication*, Hao Zeng (Beihang University, P.R. China); Dianfu Ma (State Key Laboratory of Software Development Environment of Beihang University, P.R. China); Yongwang Zhao (Beihang university, P.R. China); Zhuqing Li (Beihang University, P.R. China)
4. *Enhancement security level and hardware implementation of ECDSA*, Nabil Ghanmy (LETI Laboratory University of Sfax Tunisia, Tunisia); Lamia Chaari Fourati (Institut supérieur d'informatique et multimédia de sfax, Tunisia); Lotfi Kamoun (LETI Laboratory University of Sfax Tunisia, Tunisia)
5. *A Similarity Based Approach for Application Dos Attacks Detection*, Maurizio Aiello (National Research Council, Italy); Enrico Cambiaso (IEIIT, Italy); Silvia Scaglione (National Research Council, Italy); Gianluca Papaleo (IEIIT, Italy)
6. *Cryptanalysis of the Toorani-Falahati Hill Ciphers*, Liam Keliher (Mount Allison University, Canada), Anthony Z. Delaney (Mount Allison University, Canada)

**17:15-18:45, Room 5**

**Session 12: Routing and Multicast II**

**Session Chair:** Sun Songlin (Beijing University of Posts and Telecommunications, P.R. China)

1. *An Optimization-Based Robust Routing Algorithm for IP Energy-Efficient Networks*, Dingde Jiang (Northeastern University, P.R. China); Wenhui Zhao (Northeastern University, P.R. China); Jindi Liu (Northeastern University, P.R. China)
2. *Infrastructure-Dependent Wireless Multicast - Improving the Code Rate*, Jean Marie Vella (University of Malta, Malta); Saviour Zammit (University of Malta, Malta)
3. *DCR: Depth-Controlled Routing Protocol for Underwater Sensor Networks*, Rodolfo W. L. Coutinho (Federal University of Minas Gerais, Brazil); Luiz F. M. Vieira (Universidade Federal de Minas Gerais, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
4. *Data Dissemination in Urban Vehicular Ad hoc Networks with Diverse Traffic Conditions*, Guilherme Maia (Federal University of Minas Gerais, Brazil); Leandro Aparecido Villas (UFMG, Brazil); Azzedine Boukerche (University of Ottawa, Canada); Aline Carneiro Viana (INRIA, France); Andre Aquino (Universidade Federal de Alagoas, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)

Tuesday, July 9, 2013

9:30-10:30, Room 1

**PLENARY SESSION**

Keynote Speaker: **Milan Milenković** (Intel Labs, Intel Corporation, USA)

10:00 – 10:30, Room 1

**Presentation of IEEE ISCC 2014**

10:30-11:00

**Coffee Break**

11:00-12:30, Room 2

**Session 13: Cognitive Radio Networking**

**Session Chair:** Mahmoud H. Ismail (Cairo University, Egypt)

1. *Energy-efficient Cooperative Spectrum Sensing for Cognitive Radio Sensor Networks*; Ozgur Ergul (Koc University, Turkey); Ozgur B. Akan (Koc University, Turkey)
2. *Adaptive Sensing Policies for Cognitive Wireless Networks using Learning Automata*, Panagiotis Sarigiannidis (University of Western Macedonia, Greece); Malamati Louta (University of Western Macedonia, Greece); Thomas Lagkas (The University of Sheffield International Faculty, CITY College & University of Western Macedonia, Greece); Eleni Balasa (University of Western Macedonia, Greece)
3. *Improved Spectrum Mobility using Virtual Reservation in Collaborative Cognitive Radio Networks*, Ayman T. Abdel-Hamid (Nile University, Egypt); Ahmed Zahran (Nile University, Egypt); Tamer ElBatt (Faculty of Engineering, Cairo University & WINC, Nile University, Egypt)
4. *Multi-Stage Energy Detection Spectrum Sensing using Group Intelligence*, Muhammed Fahim (Cairo University, Faculty of Engineering, Electronics and Comm dept & Nokia Siemens Networks, Egypt); Mahmoud H. Ismail (Cairo University, Egypt); Hazim Tawfik (Cairo University, Egypt)

11:00-12:30, Room 3

**Session 14: Peer-to-Peer Computing**

**Session Chair:** Kazuyuki Shudo (Tokyo Institute of Tech., Japan)

1. *Extensive Analysis of a Kad-based Distributed Storage System for Session Data*, Jan Skodzik (University of Rostock, Germany); Peter Danielis (University of Rostock, Germany); Vlado Altmann (University of Rostock, Germany); Dirk Timmermann (University of Rostock, Germany)
2. *A Traffic Localization Strategy for Peer-to-Peer Live Streaming*, Chao Dai (Tsinghua University, P.R. China); Yong Jiang (Graduate School at Shenzhen, Tsinghua University, P.R. China); Shutao Xia (Tsinghua University, P.R. China); Haitao Zheng (Graduate School at Shenzhen, Tsinghua University, P.R. China); Laizhong Cui (Shenzhen University, P.R. China)
3. *SocialStreaming: P2P-assisted Streaming in Social Networks*, Laizhong Cui (Shenzhen University, P.R. China); Nan Lu (Shenzhen University, P.R. China)
4. *A Method for Designing Proximity-aware Routing Algorithms for Structured Overlays*, Takehiro Miyao (Tokyo Institute of Technology, Japan); Hiroya Nagao (Tokyo Institute of Tech., Japan); Kazuyuki Shudo (Tokyo Institute of Tech., Japan)

11:00-12:30, Room 4

**Session 15: Services and Support for Smart Cities**

**Session Chair:** Carlos T. Calafate (Universidad Politècnica de València, Spain)

1. *GUGA: a tool for participatory cities*, Luana Schünke (Universidade do Vale do Rio dos Sinos - UNISINOS, Brazil); Marta B Villamil (Universidade do Vale do Rio dos Sinos- Unisinos, Brazil); Luiz Paulo de Oliveira (UNISINOS, Brazil)
2. *Is it Possible to Detect Mobile Phone User's Attention Based on Accelerometer Measurement of Gait Pattern?*, Josip Music (University of Split, Croatia); Ivo Stancic (University of Split, Croatia); Vlasta Zanchi (University of Split, Croatia)
3. *Challenges and opportunities on the large scale study of city dynamics using participatory sensing*, Thiago H. Silva (Federal University of Minas Gerais (UFMG), Brazil); Pedro O. S. Vaz de Melo (Federal University of Minas Gerais, Brazil); Jussara M. Almeida (Federal University of Minas Gerais, Brazil); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil)
4. *DrivingStyles: a smartphone application to assess driver behaviour*, Javier Meseguer (Universitat Politècnica de València, Spain); Carlos T. Calafate (Universidad Politècnica de València, Spain); Juan-Carlos Cano (Universidad Politècnica de València, Spain); Pietro Manzoni (Politècnica de València, Spain)

**11:00-12:30, Room 5**

**Session 16: Next Generation Networks Infrastructures and Management I**

**Session Chair:** Janusz Kleban (Poznan University of Technology, Poland)

1. *Performance Evaluation of Software-Defined Networking with Real-life ISP Traffic*, Xiangxin Kong (Tsinghua University, P.R. China); Zhiliang Wang (Tsinghua University, P.R. China); Xingang Shi (Tsinghua University, P.R. China); Yin Xia (Tsinghua University, P.R. China); Dan Li (Tsinghua University, P.R. China)
2. *Scaling Bloom filter-based multicast via filter switching*, Christos Tsilopoulos (Athens University of Economics and Business, Greece); George Xylomenos (Athens University of Economics and Business, Greece)
3. *IPv6 Network Topology Discovery Method Based on Novel Graph Mapping Algorithms*, Miao Li (Tsinghua University, P.R. China); Jiahai Yang (Tsinghua University, P.R. China); Changqing An (Tsinghua University, P.R. China); Chenxi Li (Tsinghua University, P.R. China); Fuliang Li (Tsinghua University, P.R. China)
4. *Modeling and Optimizing the Cache Deployment with Filter Effect in Multi-Cache System*, Yiming Zhou (Tsinghua University, P.R. China); Laizhong Cui (Shenzhen University, P.R. China); Yong Jiang (Graduate School at Shenzhen, Tsinghua University, P.R. China); Mingwei Xu (Tsinghua University, P.R. China)
5. *Hephaestus: a cloud-based environment to virtual network automation*, Roberio Patricio (Laboratory of Computer Network and Security - LARCES, Brazil); Joaquim Celestino Júnior (State University of Ceará, Brazil)

**12:30-14:00**

**Lunch Break**

**14:00-15:00, Room 1**

**PLENARY SESSION**

Keynote Speaker: **Shie-Yuan Wang**, National Chiao Tung University, Taiwan

**15:15-16:45, Room 2**

**Session 17: Wireless and Mobile Communication III**

**Session Chair:** Kadir Turk (Karadeniz Technical University, Turkey)

1. *A Sub-Optimal Receiver Performance Study over a Multipath UWB Channel*, Hussein Mouftah (University of Ottawa, Canada); Paul Fortier (Laval University, Canada)
2. *MIMO-Diversity Switching Techniques for Digital Transmission in Visible Light Communication*, Lih Chieh Png (Nanyang Technological University, Singapore); Long Xiao (A\*STAR Institute for Infocomm Research, Singapore); Kiat Seng Yeo (Nanyang Technological University, Singapore); Thin Sek Wong (Nanyang Technological University, Singapore); Yong Liang Guan (Nanyang Technological University, Singapore)
3. *Analysis and compensation of Nonlinear Polynomial Model in MIMO OFDM Systems under Rayleigh fading channel*, Maha Cherif (Innov'Com Lab, Tunisia); Rafik Zayani (Innov'COM Lab, Sup'Com, Tunisia); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)
4. *On Reliable Information Rate Bounds for Fading Channel With Receiver CSI only*, Kadir Turk (Karadeniz Technical University, Turkey); Pingyi Fan (Tsinghua University, P.R. China)
5. *A Statistical-based Algorithm for Event Region Detection in Wireless Sensor Networks*, Anousheh Tavakoli-Dehkordi (University of Greenwich, United Kingdom); Yifan Chen (South University of Science and Technology of China, P.R. China); Predrag Rapajic (University of Greenwich, United Kingdom); Chau Yuen (Singapore University of Technology and Design, Singapore); Yong Huat Chew (Institute for Infocomm Research, Singapore)

**15:15-16:45, Room 3**

**Session 18: Big Data, Data Mining and Database Applications**

**Session Chair:** Linda Vicković (University of Split, Croatia)

1. *Optimizing the Management of a Database in a Virtual Environment*, Timoteo Lange (PUC, Brazil); Paolo Cemim (Pontificia Universidade Católica do Rio Grande do Sul, Brazil); Miguel Xavier (PUCRS, Brazil)
2. *Inferring Presence Status on Smartphones: The Big Data Perspective*, Aleksandar Antonic (University of Zagreb, Croatia); Ivana Podnar Zarko (University of Zagreb, Croatia); Domagoj Jakobovic (University of Zagreb, Croatia)
3. *PUBSUB: An Efficient Publish/Subscribe System*, Tania Banerjee-Mishra (University of Florida, USA); Sartaj Sahni (University of Florida, USA)
4. *A Two-Pass Exact Algorithm for Selection on Parallel Disk Systems*, Tian Mi (University of Connecticut, USA); Sanguthevar Rajasekaran (University of Connecticut, USA)
5. *Improving Load Balancing for MapReduce-based Entity Matching*, Demetrio G Mestre (Federal University of Campina Grande (UFCG), Brazil); Carlos Pires (Federal University of Campina Grande (UFCG), Brazil)

**15:15-1645, Room 4**

**Session 19: Communications Services and Management**

**Session Chair:** Matko Šarić (University of Split, Croatia)

1. *The Effect of the Congestion Control Window Size on the TCP Incast and its Implications*, Guodong Wang (Computer Network Information Center of Chinese Academy of Sciences, P.R. China)
2. *Ensemble Classifier for Traffic in Presence of Changing Distributions*, Runxin Wang (Waterford Institute of Technology, Ireland); Lei Shi (Waterford Institute of Technology, Ireland); Brendan Jennings (Waterford Institute of Technology, Ireland)
3. *The 2ACT Model-based Evaluation for In-network Caching Mechanism*, Ke Xu (Tsinghua University, P.R. China); Min Zhu (Department of Computer Science, Tsinghua University, P.R. China); Ning Wang (University of Surrey, United Kingdom); Song Lin (Tsinghua University, P.R. China); Haiyang Wang (Simon Fraser University, Canada); Tong Li (Tsinghua University, P.R. China)
4. *Development and Evaluation of LISP-based Instant VPN Services*, Chikara Sasaki (KDDI R&D Laboratories Inc., Japan); Peng Jiang (KDDI R&D Laboratories Inc., Japan); Atsushi Tagami (KDDI R&D Laboratories, Japan); Teruyuki Hasegawa (KDDI R&D Laboratories Inc., Japan); Shigehiro Ano (KDDI R&D Laboratories, Japan)
5. *Locating Disruptions on an Internet Path through End-to-End Measurements*, Atef Abdelkefi (Q2S, Norwegian University of Science and Technology, Norway); Yaser Eftekhari (Carleton University, Canada); Yuming Jiang (Norwegian University of Science and Technology (NTNU), Norway)

**15:15-16:45, Room 5**

**Session 20: Next Generation Networks Infrastructures and Management II**

**Session Chair:** Julije Ožegović (University of Split, Croatia)

1. *Static Dispatching with Internal Backpressure Scheme for SMM Clos-Network Switches*, Janusz Kleban (Poznan University of Technology, Poland); Urszula Suszyńska (GSK Services, Poland)
2. *A Measurement Protocol for Channel Assignment Based Topology Control on Multi-Radio Wireless Mesh Networks*, Ante Prodan (University of Western Sydney, Australia); John Debenham (University of Technology, Sydney, Australia)
3. *Exploiting Multiuser Diversity for OFDMA Next Generation Wireless Networks*, Abdellah Chehri (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada)
4. *On the Comprehension of DSL Sync Trap Events in IPTV Networks*, Angelos K. Marnierides (Lancaster University, United Kingdom); Simon Malinowski (INESC Porto, France); Ricardo Morla (INESC Porto and Faculty of Engineering, University of Porto, Portugal); Miguel Rodrigues (University College London, United Kingdom); Hyong Kim (Carnegie Mellon University, USA)
5. *Self-\* Properties and P2P Technology on Disruption-Tolerant Management*, Jéferson Nobre (Federal University of Rio Grande do Sul, Brazil); Pedro Arthur Duarte (Federal University of Rio Grande do Sul, Brazil); Lisandro Z Granville (Federal University of Rio Grande do Sul, Brazil); Liane Margarida Rockenbach Tarouco (Federal University of Rio Grande do Sul, Brazil)

**16:45-17:15**

**Coffee Break**

**17:15-18:45, Room 2**

**Session 21: Wireless and Mobile Communication IV**

**Session Chair:** Hussein Mouftah (University of Ottawa, Canada)

1. *Probability of Error and Ergodic Capacity of Switch-and-Examine Combining Diversity over the  $\alpha$ - $\mu$  Fading Channel*, Refaat Mohamed (Faculty of Engineering, Cairo University, Egypt); Mahmoud H. Ismail (Cairo University, Egypt); Fatma A. Newagy (Ain-Shams University, Egypt); Hebatallah Mourad (Cairo University, Egypt)
2. *Fractionally Spaced Self-Interference Canceler for Full-Duplex Communication Systems*, Semiha Tedik (Istanbul Technical University, Turkey); Gunes Karabulut Kurt (Istanbul Technical University, Turkey)
3. *Interference-Aware Radio Resource Management Framework for the 3GPP LTE Uplink with QoS Constraints*, Amira Afifi (Cairo University, Egypt); Khaled Elsayed (Cairo University, Egypt); Ahmed Khattab (Cairo University, Egypt)
4. *On the efficacy of WiFi indoor positioning in a practical setting*, Stylianos Papanastasiou (Nottingham Trent University, United Kingdom); Evtim Peytchev (Nottingham Trent University, United Kingdom); Thomas Jaffre (French Naval Academy, France); Pierre Mickael Grigis (French Naval Academy, France)
5. *Recovering Erroneous Data Bits Using Error Estimating Code*, Xingshen Wei (Nanjing University, P.R. China); Wenzhong Li (Nanjing University, P.R. China); Xiaoliang Wang (Nanjing University, P.R. China); Sanglu Lu (Nanjing University, P.R. China); Xiaoming Fu (University of Goettingen, Germany)



**17:15-18:45, Room 3**

**Session 22: Real Time Communication Services**

**Session Chair:** Vladan Papić (University of Split, Croatia)

1. *Evaluation of Audio/Video Bridging forwarding method in an Avionics Switched Ethernet Context*, Fabien Geyer (EADS Innovation Works, Germany); Emanuel Heidinger (EADS Innovation Works, Germany); Stefan Schnee (EADS Innovation Works, Germany); Alexander von Bodisco (Hochschule Kempten, Germany)
2. *Connections Analysis of Voice Traffic over MANETs and their Impact on Delay Variation*, Sofiene Jelassi (INRIA Rennes - Bretagne Atlantique & Rennes, France); Gerardo Rubino (INRIA, France)
3. *Throughput Improvement of Oversampled WiMAX Receiver in Frequency Selective Channel*, Kadir Turk (Karadeniz Technical University, Turkey)

**17:15-18:45, Room 4**

**Session 23: Modeling and Simulation**

**Session Chair:** Eugen Mudnić (University of Split, Croatia)

1. *Mathematical model of simplified Constrained Priority Countdown Freezing protocol*, Ante Kristic (University of Split, Croatia); Julije Ozegovic (University of Split, Croatia); Ivan Kedzo (University of Split, Croatia)
2. *Fair Division Methods Approach as the Option of Learning Process Modeling*, Jadranka Marasović (FESB, Split, Croatia); Tea Marasović (FESB, Split, Croatia)
3. *Power Modeling and Thermal Management Techniques for Manycores*, Rajib Nath (University of California, San Diego, USA); Douglas Carmean (Intel, USA); Tajana Simunic Rosing (University of California, San Diego, USA)
4. *Modeling of a Dynamic RFID System*, Marek Gotfryd (Rzeszow University of Technology, Poland); Bartosz Pawłowicz (Rzeszow University of Technology, Poland)
5. *An Optimal Segment Replication Strategy in P2P-VoD Systems*, Hongke Hu (Graduate School at Shenzhen, Tsinghua University, P.R. China); Yong Jiang (Graduate School at Shenzhen, Tsinghua University, P.R. China); Laizhong Cui (Shenzhen University, P.R. China); Shutao Xia (Tsinghua University, P.R. China); Haitao Zheng (Graduate School at Shenzhen, Tsinghua University, P.R. China)

**17:15-18:45, Room 5**

**Session 24: Next Generation Networks Infrastructures and Management III**

**Session Chair:** Sartaj Sahni (University of Florida, USA)

1. *LMD: a local minimum driven and self-organized method to obtain locators*, Yonggong Wang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Gaogang Xie (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Mohamed-Ali Kaafar (INRIA France & NICTA Australia, France); Steve Uhlig (Queen Mary, University of London, United Kingdom)
2. *Baatdaat: Measurement-Based Flow Scheduling for Cloud Data Centers*, Fung Po Tso (University of Glasgow, United Kingdom); Dimitrios P Pezaros (University of Glasgow, United Kingdom)
3. *Queuing analysis of dynamic resource allocation for virtual routers*, Mohamed Said Seddiki (Higher School of Communication of Tunis, Tunisia); Mounir Frikha (High School of Communication in Tunis, Tunisia); Bilel Nefzi (LORIA laboratory - Nancy University - INPL, France); YeQiong Song (LORIA - Nancy University - INPL, France)
4. *Scheduling Multicast Traffic in Partially Buffered Crossbar Switches*, Lotfi Mhamdi (University of Leeds, United Kingdom); Di Cao (TU Delft, The Netherlands)
5. *Improvement of a Service Level Negotiation Protocol using Formal Verification*, Mohamed Aymen Chalouf (IRISA Lab - University of Rennes 1, France); Francine Krief (University of Bordeaux, France); Nader Mbarek (LE2I, University of Burgundy, France); Tayeb Lemlouma (IRISA Lab and Rennes 1 University, France)

**19:30-23:00**

**Conference Banquet**

**Wednesday, July 10, 2013**

**9:30-11:00, Room 2**

**Session 25: Sensor Networks and Mobile Sensing I**  
**Session Chair:** Joško Radić (University of Split, Croatia)

1. *The Impacts of Internal Threats towards Routing Protocol for Low power and lossy Network Performance*, Anhtuan Le (Middlesex University, United Kingdom); Jonathan Loo (Middlesex University, United Kingdom); Yuan Luo (Middlesex University, United Kingdom); Aboubaker Lasebae (Middlesex University, United Kingdom)
2. *Localized MAC Duty-Cycling Adaptations for Global Energy-Efficiency in Wireless Sensor Networks*, Julien Beaudaux (University of Strasbourg, France); Antoine Gallais (University of Strasbourg, France); Thomas Noel (University of Strasbourg, France)
3. *An Adaptive Surface Sink Redeployment Strategy for Underwater Sensor Networks*, Manal Al-Bzoor (University of Connecticut, USA); Yibo Zhu (Univ. of Connecticut, USA); Jun Liu (University of Connecticut, USA); Reda Ammar (Univ. of Connecticut, USA); Jun-Hong Cui (Univ. of Connecticut, USA); Sanguthevar Rajasekaran (Univ. of Connecticut, USA)
4. *Deriving Lower Bounds for Energy Consumption in Wireless Sensor Networks*, Adriana Penaranda (Federal University of Amazonas, Brazil); Andre Araujo (Federal University of Amazonas, Brazil); Fabiola G. Nakamura (Universidade Federal do Amazonas, Brazil)

**9:30-11:00, Room 3**

**Session 26: Internet Services and Applications**  
**Session Chair:** Hrvoje Dujmić (University of Split, Croatia)

1. *An Analysis of Replication and Retrieval of Medical Image Data Using a Database Management System and a Distributed File System*, Douglas D J Macedo (Federal University of Santa Catarina, Brazil); Mario A R Dantas (UFSC, Brazil); Miriam A M Capretz (University of Western Ontario, Canada); Eros Comunello (University of Itajaí Valley & Programm on Applied Computing, Brazil); Thiago Coelho Prado (UFSC, Brazil); Elias Santos (Assembléia Legislativa do Estado de Santa Catarina, Brazil)
2. *Assessing Performance of Internet Services on IPv6*, David J. Plonka (University of Wisconsin - Madison, USA); Paul Barford (University of Wisconsin - Madison, USA)
3. *IP Traffic Classifiers Applied to DiffServ Networks*, Michael Taynnan Barros (Waterford Institute of Technology & TSSG - Telecommunications Software and Systems Group, Ireland); Reinaldo Gomes (Federal University of Campina Grande, Brazil); Marcelo S. Alencar (Federal University of Campina Grande & Institute for Advanced Studies in Communications, Brazil); Anderson Costa (Federal Institute of Education, Science and Technology of Paraíba - IFPB - Campus Campina Grande, Brazil)
4. *Optimization of Ad Hoc Device and Service Discovery in Large Scale Networks*, Vlado Altmann (University of Rostock, Germany); Peter Danielis (University of Rostock, Germany); Jan Skodzik (University of Rostock, Germany); Frank Golatowski (University of Rostock, Germany); Dirk Timmermann (University of Rostock, Germany)

**9:30-11:00, Room 4**

**Session 27: Image and Video Processing**  
**Session Chair:** Tamara Grujić (University of Split, Croatia)

1. *Object classification in water sports*, Vladimir Plestina (University of Split, Croatia); Vladan Papic (University of Split, Croatia)
2. *Local colour statistics for edge definition*, Barbara Dzaja (University of Split, Croatia); Niksa Antisic (Siemens, Croatia); Mirjana Bonkovic (University of Split, Croatia)
3. *Comparison of stamp classification using SVM and Random ferns*, Pjero Petej (University of Split & Financial Agency (FINA), Croatia); Sven Gotovac (University of Split & FESB, Croatia)
4. *Scalable Video Coding Guidelines and Performance Evaluations for Adaptive Media Delivery of High Definition Content*, Michael Grafl (Alpen-Adria- Universität Klagenfurt, Austria); Christian Timmerer (Alpen-Adria- Universität Klagenfurt, Austria); Hermann Hellwagner (Klagenfurt University, Austria); Wael Cherif (University of Rennes 1 & Viotech Communications, France); Daniel Négro (University of Bordeaux, France); Stefano Battista (bSoft Ltd, Italy)

**9:30-11:00, Room 5**

**Session 28: Network Design, Optimization, and Management I**

**Session Chair:** Wenzhong Li (Nanjing University, P.R. China)

1. *Comparative Study of a Hybrid Model for Network Traffic Identification and its Optimization using Firefly Algorithm*, Zuleika Nascimento (Federal University of Pernambuco - UFPE, Brazil); Djamel Hadj Sadok (Federal University of Pernambuco, Brazil); Stenio Fernandes (Federal University of Pernambuco, Brazil)
2. *Detection of Fast-Flux Networks Using Various DNS Feature Sets*, Berkay Celik (Istanbul Technical University, Turkey); Sema Oktug (Istanbul Technical University, Turkey)
3. *Model of Influence of MRP on Network Performances*, Filip Belic (TEO-Belišće doo, Croatia); Goran Martinovic (J. J. Strossmayer University of Osijek, Croatia)
4. *Basic Classifiers for DNS Tunneling Detection*, Maurizio Aiello (National Research Council, Italy); Maurizio Mongelli (National Research Council of Italy, Italy); Gianluca Papaleo (IEIIT, Italy)
5. *BSF-UED: A New Time-Efficient Bluetooth Scatternet Formation Algorithm Based on Unnecessary-Edges Deletion*, Ahmed Jemma (University of Ottawa, Canada); Arnaud Casteigts (University of Bordeaux, France); Guy-Vincent Jourdan (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)

**11:00-11:30**

**Coffee Break**

**11:30-13:00, Room 2**

**Session 29: Sensor Networks and Mobile Sensing II**

**Session Chair:** Josip Lörinz (University of Split, Croatia)

1. *A Self-adaptive Recovery Strategy for Service Composition in Ubiquitous Stub Environments*, Lijun Wang (Beijing University of Posts and Telecommunications, P.R. China); Lanlan Rui (Beijing University of Posts and Telecommunications, P.R. China); Kangming Jiang (Guangdong Power Grid Power Dispatching Control Center, P.R. China); Qiu Xue-song (Beijing University of Posts and Telecommunications, P.R. China); Li Wenjing (Beijing University of Posts and Telecommunications, P.R. China)
2. *Strategies for Optimal MAC Parameter Setting in IEEE 802.15.4 Wireless Sensor Networks: a Performance Comparison*, Simone Brienza (University of Pisa, Italy); Domenico De Guglielmo (University of Pisa, Italy); Giuseppe Anastasi (University of Pisa, Italy); Marco Conti (IIT-CNR, Italy); Vincenzo Neri (IDS - Ingegneria Dei Sistemi, Italy)
3. *RelBAS: Reliable Data Gathering from Border Area Sensors*, Suchetana Chakraborty (Indian Institute of Technology Guwahati, India); Sandip Chakraborty (Indian Institute of Technology Guwahati, India); Sukumar Nandi (Indian Institute of Technology, Guwahati, India); Sushanta Karmakar (Indian Institute of Technology, Guwahati, India)
4. *A Traffic Adaptive Inter-Cluster Head Delay Control Scheme in WSNs*, Irfan S. Al-Anbagi (University of Ottawa, Canada); Melike Erol-Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)

**11:30-13:00, Room 3**

**Session 30: Optical Networking**

**Session Chair:** Dinko Begušić (University of Split, Croatia)

1. *Optical stateful security filtering approach based on code words*, Maha Sliti (Communication Networks and Security Research Lab., Tunisia); Noureddine A. Boudriga (University of Carthage, Tunisia)
2. *A Column Generation-based Heuristic for the GRWA with Protection and QoS in WDM Optical Networks*, Fernanda S H Souza (Federal University of Minas Gerais, Brazil); Daniel L. Guidoni (Federal University of São João Del-Rei, Brazil); Geraldo R Mateus (Universidade Federal de Minas Gerais, Brazil)
3. *The Cost of Traffic Protection in Bidirectional Optical Packet Switching Rings*, Bogdan Uscumlic (Telecom Bretagne, France); Lida Sadeghioon (Telecom Bretagne, France); Annie Gravey (Institut Mines Telecom - Telecom Bretagne, France); Philippe Gravey (Télécom Bretagne, France)
4. *Optical Infrastructure for Visible Light Communication for Public Housing and Commercial Buildings*, Lih Chieh Png (Nanyang Technological University, Singapore); Kiat Seng Yeo (Nanyang Technological University, Singapore)

**11:30-13:00, Room 4**

**Session 31: Artificial Intelligent Systems**

**Session Chair:** Mirjana Bonković (University of Split, Croatia)

1. *Capabilities and Objectives of Distributed Image Processing on Smart Camera Systems*, Rene Golembewski (Ilmenau University of Technology, Germany); Steve Göring (Ilmenau University of Technology, Germany); Guenter Schaefer (Technische Universitaet Ilmenau, Germany)
2. *Information Theoretic Approach to Variable Selection in Predictive Models Applied to Paper Machine Data*, Elena Ivannikova (University of Jyväskylä, Finland); Timo Hämäläinen (University of Jyväskylä, Finland); Kari Luostarinen (Metso Paper Inc., Finland)
3. *A Novel Feature Descriptor for Gesture Classification Using Smartphone Accelerometers*, Tea Marasović (FESB, Split, Croatia); Vladan Papic (University of Split, Croatia)

**11:30-13:00, Room 4**

**Session 32: Software Engineering**

**Session Chair:** Sven Gotovac, University of Split, Croatia

1. *Method for Elicitation, Documentation and Validation of Software User Requirements (MEDoV)*, Srdjana Dragicevic (Airport Split, Croatia); Stipe Celar (University of Split & FESB, Croatia)
2. *An MDE Approach for Domain based Architectural Components Modelling*, Rahma Bouaziz (IRIT, University of Toulouse, France)\*

**11:30-13:00, Room 5**

**Session 33: Network Design, Optimization, and Management II**

**Session Co-Chair:** Goran Martinovic (J. J. Strossmayer University of Osijek, Croatia)

**Session Co-Chair:** Milutin Kapov (University of Split, Croatia)

1. *A Handoff Algorithm based on Link Quality Prediction for Mass Transit Wireless Mesh Networks*, Carmine Benedetto (University of Pisa, Italy); Enzo Mingozzi (University of Pisa, Italy); Carlo Vallati (University of Pisa, Italy)
2. *ID-MAC: An Identity-Based MAC Protocol for Wireless Sensor Networks*, Felipe Cunha (Federal University of Minas Gerais, Brazil); Italo Cunha (Universidade Federal de Minas Gerais, Brazil); Hao Wong (Intel Corporation, USA); Antonio A.F. Loureiro (Federal University of Minas Gerais, Brazil); Leonardo Oliveira (Federal University of Minas Gerais, Brazil)
3. *Handoff Triggering for Wireless Sensor Networks with Performance Needs*, Zinon Zinonos (University of Cyprus, Cyprus); Vasos Vassiliou (University of Cyprus, Cyprus); Chrysostomos Chrysostomou (Frederick University, Cyprus)
4. *A Utility-based Terminal Selection Mechanism for Terminal Cooperation in Heterogeneous Wireless Networks*, Shoushou Ren (Institute of Acoustics Chinese Academy of Sciences, P.R. China); Yinlong Liu (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Xu Zhou (Institute of Acoustics, Chinese Academy of Science, P.R. China); Hui Tang (Chinese Academy of Sciences, P.R. China); Song Ci (University of Nebraska-Lincoln, USA)

**13:00-14:30**

**Lunch Break**

**14:30-15:00**

**Closing Plenary and Awards**

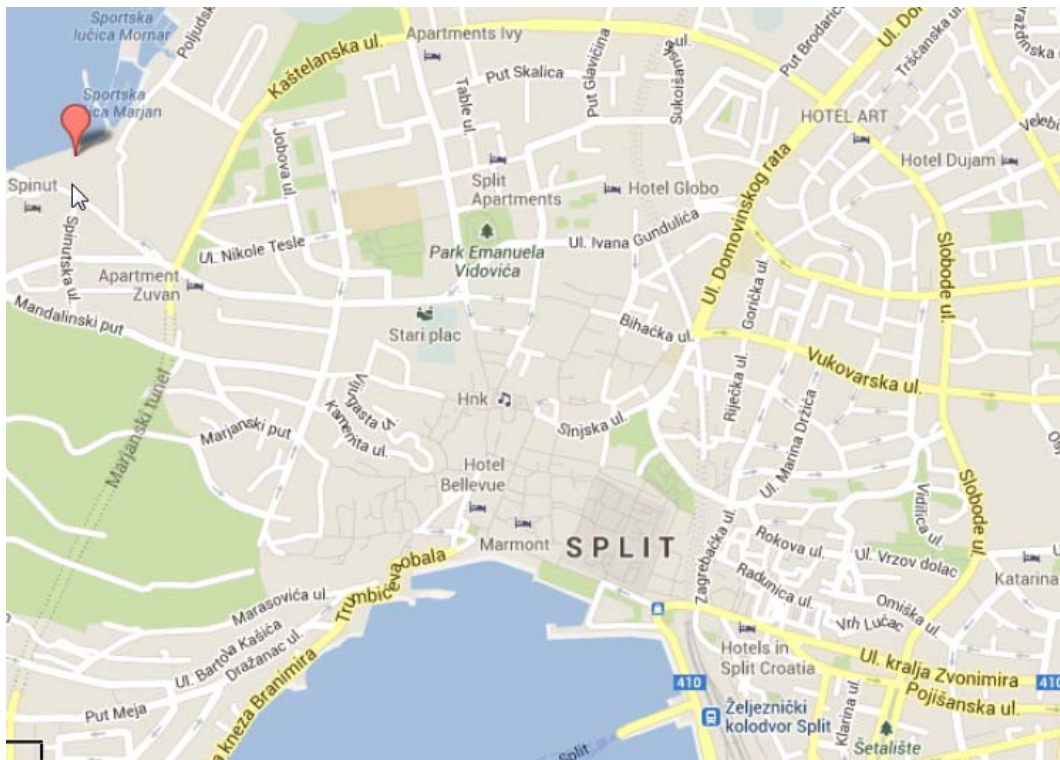
# Practical information

## Registration

You can take your accreditations and get all the information you need at the registration desk. It will be at the main entrance of the FESB.

## How to get to the Banquet?

Arrival on the Banquet (Restaurant Gusar) is organized by ISCC. Bus, which will take you to the restaurant, will depart in front of the FESB at 7:00 PM. If you want to go to the restaurant by yourself, address of the restaurant is: Špinutska 69, 21000 Split (43.516012, 16.425236).





## How to get to the Welcome reception?

Welcome reception will be at the Diocletian's basements which are at the very centre of the old town (Diocletian Palace). Diocletian's basements can be reached by a gate leading from the south side of the Diocletian Palace (centre of the famous Riva).

- **(public transportation)** Walk to the bus stop FESB. Take bus No. 18 (5 stops), 17 (7 stops) or 11 (7 stops), ride till the bus stop PAZAR, and then walk to the Diocletian's palace basement.
  - Timetable of bus No. 18 [www.promet-split.hr/index.php?option=com\\_content&task=view&id=65&Itemid=96](http://www.promet-split.hr/index.php?option=com_content&task=view&id=65&Itemid=96)

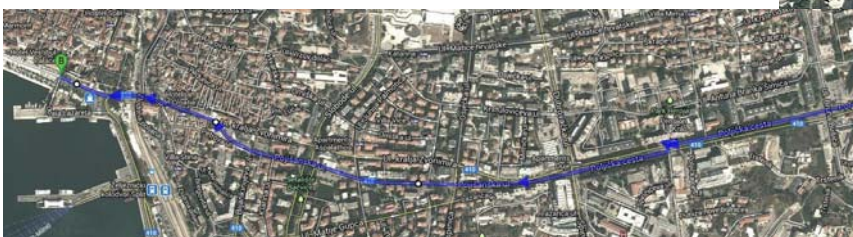
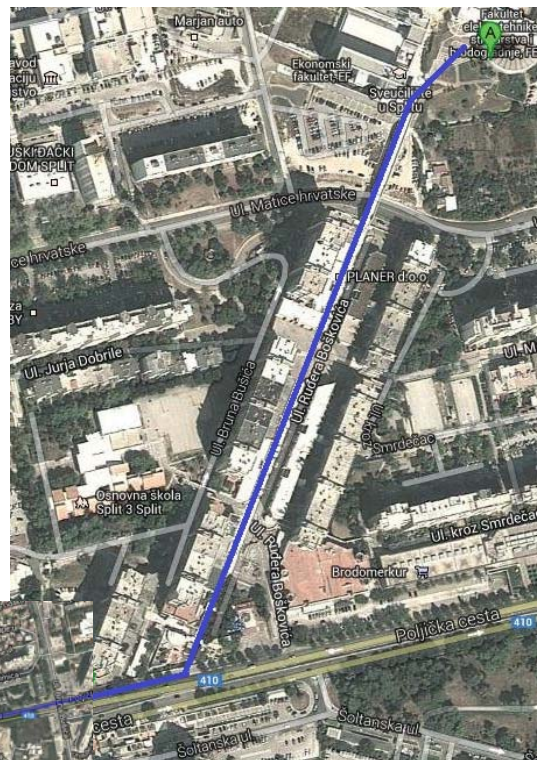


Picture 1 Bus stop FESB  
(A) – FESB; (B) – Bus stop FESB



Picture 2 Diocletian's basements  
(A) – Bus stop PAZAR; (B) – Diocletian's basements

- **(by foot)** From FESB to the Diocletian's basement you need to walk about 30-45 minutes. Route is pretty simple (just follow the main road), as it is shown on the next pictures.

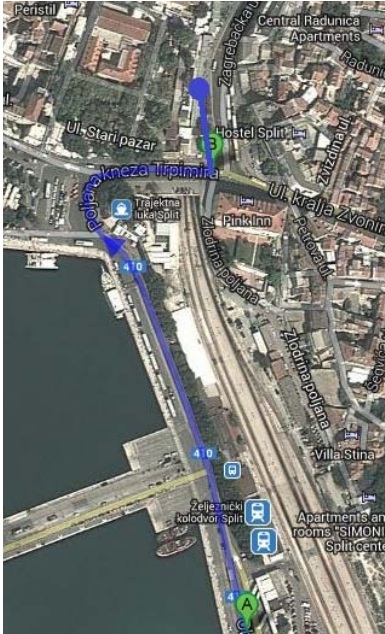




## Coming from airport

Split Airport is located at the very exit from the town of Kastela, towards Trogir. It is at 20 km distance from Split, and at 6 km from Trogir. There are 3 ways to come to Split: by direct bus line, by public transport, or by taxi.

- **(direct bus line)** Transfer of passengers to/from Split is organised in cooperation with PLESO PRIJEVOZ firm ([www.plesoprijevoz.hr](http://www.plesoprijevoz.hr)) which drives to the main bus station. After arriving there, walk to the bus stop PAZAR (Picture 3) and there catch a bus No. 18. Ride till the bus stop FESB (5 stops) (Picture 4)
  - Timetable of bus No. 18 [http://www.promet-split.hr/index.php?option=com\\_content&task=view&id=65&Itemid=96](http://www.promet-split.hr/index.php?option=com_content&task=view&id=65&Itemid=96)



Picture 3 Bus stop PAZAR  
(A) – Main bus stop; (B) – Bus stop PAZAR



Picture 4 Bus stop FESB  
(A) – Bus stop FESB; (B) - FESB

- **(taxi)** Taxi is available during Split Airport operating hours. Tel: +385 (0)21 895 237, mob: +385(0)98 536591

## Coming from ferry, main bus station and main train station

Ferry, main bus station and main train station are located very near to each other.

- **(public transportation)** Walk to the bus stop PAZAR (Picture 1). There take bus No. 18 and ride till the bus stop FESB (5 stops) (Picture 2).
  - Timetable of bus No. 18 [http://www.promet-split.hr/index.php?option=com\\_content&task=view&id=65&Itemid=96](http://www.promet-split.hr/index.php?option=com_content&task=view&id=65&Itemid=96)
- **(taxi)** Tel: +385(0)21 347777, +385(0)21 481100, +385(0)21 360555, +385(0)21 465280

## Coming by car

Address of FESB is Ruđera Boškovića 32 (43.510962, 16.469015). There are 2 (free) parking lots near to the FESB.

