Monday, 29th June 2015

09.00-9.15 Opening Remark and Logistics

09.15-10.30 Keynote Speech

Combining IoT and Cyber world: Tools and methodologies to manage an urban environment
Antonio Puliafito (University of Messina, Italy)

10.30-11.00 Coffee break

11.00-13.00 Session 1: Smart Energy

Energy Efficient Small-Cell Discovery Using Users’ Mobility Prediction
Apollinaire Nadembega (Montreal University, Canada), Abdelhakim Hafid (Montreal University, Canada), Ronald Brisebois (Bibliomondo, Canada)

A Linear Programming Approach for K-Resilient and Reliability-Aware Design of Large-Scale Industrial Networks
Bela Genge, Piroksa Haller, Istvan Kiss (Petru Maior University of Tg. Mures, Romania)

Self-organised Key Management for the Smart Grid
Foivos Fotios Demertzis (University of Piraeus, Greece), Georgios Karopoulos (University of Athens, Greece), Christos Xenakis (University of Piraeus, Greece), Andrea Colarieti (WEST Aquila, Italy)

A Modular and Flexible Network Architecture for Smart Grids
Stefano Tennina (WEST Aquila, Italy), Dionysis Xenakis (University of Athens, Greece), Mattia Boschi (WEST Aquila, Italy), Marco Di Renzo (French National Centre for Scientific Research, CNRS, France), Fabio Graziosi (WEST Aquila, Italy), Christos Verikoukis (CTTC, Spain)

Information-Quality based LV-Grid-Monitoring Framework and its Application to Power-Quality Control
Mislav Findrik (Ftw., Austria), Thomas L.F. Kristensen (Aalborg University, Denmark), Thomas Hinterhofer (Ftw., Austria), Rasmus Olsen (Aalborg University, Denmark), Hans-Peter Schwefel (Ftw., Austria)

13.00-14.00 Lunch
14.00 - 15.30  Session 2: Localization and Mobility Management

 Localization of a Mobile Node in Shaded Areas  
 Salvador Jauregui (Center of Research and Advanced Studies CINVESTAV, Mexico), Michel Barbeau (Carleton University, Canada), Evangelos Kranakis (Carleton University, Canada), Edson Scalabrin (Pontifical Catholic University of Parana, Brazil), Mario Siller (Center of Research and Advanced Studies CINVESTAV, Mexico)

 AdaMap: Adaptive Radiomap for Indoor Localization  
 Zhiqi Yang, Yongcai Wang, Lei Song (Tsinghua University, P.R. China)

 CAMS: Consensus-based Anchor-node Management Scheme for Train Localisation  
 Adeel Javed, Zhiyi Huang, Haibo Zhang, Jeramiah D. Deng (University of Otago, New Zealand)

 Delay Analysis of Context Aware Mobility Management Systems Addressing Multiple Connectivity Opportunities  
 Adamatia Stamou (National Centre for Scientific Research “Demokritos”, Greece), Nikos Dimitriou (National Centre for Scientific Research “Demokritos”, Greece), Kimon Kontovasilis (National Centre for Scientific Research “Demokritos”, Greece), Symeon Papavassiliou (National Technical University of Athens, Greece)

15.30-16.00  Coffee break

16.00-17.30  Session 3: Topology Control and Sensor Node Deployment

 Geographic GReedy routing with ACO recovery strategy GRACO  
 Mouna Rekik (INRIA, France), Nathalie Mitton (INRIA, France), Zied Chtourou (CMERP, Tunisia)

 On the Displacement for Covering a Square with Randomly Placed Sensors  
 Rafał Kapelko (Wroclaw University of Technology, Poland), Evangelos Kranakis (Carleton University, Canada)

 Election-Based Sensor Deployment and Coverage Maintenance by a Team of Robots  
 Qiao Li (University of Ottawa, Canada), Venkat Narasimhan (Les Enterprises Norleaf Networks, Canada), Amiya Nayak (University of Ottawa, Canada)

 A Dynamic Topology Control Algorithm for Wireless Sensor Networks  
 Gerry Siegemund, Volker Turau, and Christoph Weyer (Hamburg University of Technology, Germany)

17.30-18.00  Invited Presentation

 “Intelligent Demand Response towards Green and Reliable Smart Energy Networks”,  
 Yan Zhang (Simula Research Laboratory & University of Oslo, Norway)

20.30-23.00  Social Dinner
Tuesday, 30th June 2015

09.00-10.30  Keynote Presentations

Developing privacy-aware mobile applications in the Era of Ubiquitous Communication, Big Data, Smartphones & Social networks
Theodoros Michalareas (VELTI, Greece)

Mobile Agents Rendezvous in the Presence of Faults
David Peleg (The Weizmann Institute of Science, Israel)

10.30-11.00  Coffee break

11.00-13.00  Session 4: Vehicular Networks

Study of Probabilistic Worst Case Inter-Beacon Delays Under Realistic Vehicular Mobility Conditions
Alexandre Mouradian (Université Paris-Sud, France)

Safety in Vehicular Networks—On the Inevitability of Short-Range Directional Communications
Gerard LE LANN (INRIA, France)

Secure Incentive-Based Architecture for Vehicular Cloud
Kiho Lim, Ismail Abumuhfouz, D. Manivannan (University of Kentucky, USA)

EYES: A novel overtaking assistance system for vehicular networks
Subhadeep Patra, Javier Arnanz, Carlos Calafate, Juan-Carlos Cano, Pietro Manzoni (Universitat Politecnica de Valencia, Spain)

Weidong Xiang (University of Michigan, Dearborn, USA), Fotios Sotiropoulos (Odyssia Global communication, USA), Sheng Liu (University of Michigan, Dearborn, USA)

13.00-14.00  Lunch

14.00 - 15.30  Session 5: Scheduling and Resource Allocation in Wireless Networks

On the Impact of Network Evolution on NUM Resource Allocation Problems in Wireless Multihop Networks
Eleni Stai, Vasileios Karyotis, Symeon Papavassiliou (National Technical University of Athens, Greece)

A Schedule Template Construction Technique for Duty Cycled Sensor Networks
Van Ho, Ioannis Nikolaidis (University of Alberta, Canada)

On the Problem of Resource Allocation and System Capacity Evaluation via a Blocking Queuing Model in D2D enabled Overlay Cellular Networks
Georgios Katsinis, Eirini Eleni Tsiropoulou, Symeon Papavassiliou (National Tech. Univ. of Athens, Greece)

Scheduling Connections via Path and Edge Multicoloring
Evangelos Bampas (Univ. Bordeaux, France), Christina Karousatou (Aix-Marseille University and CNRS, France), Aris Pagourtzis, Katerina Potika (Santa Clara University, USA)
15.30-16.00  Coffee break

16.00 - 18.00  Short Tutorial
“Utility-based Resource Allocation in Wireless Networks via Game Theory: Evolution from 3G to 5G”
Eirini Eleni Tsiropoulou and Symeon Papavassiliou (National Technical University of Athens, Greece)

20.30-23.00  Banquet
Dinner, Best paper award

Wednesday, 1st July 2015

09.00-10.30  Invited Presentations
Presentation Title (tbd)
Shay Kutten (Technion - Israel Institute of Technology, Israel)
“Mobile Agents in Time-Varying Networks”
Nicola Santoro (Carleton University, Canada)

10.30-11.00  Coffe Break

11.00-13.00  Session 6: Mobile Agents I (Invited)
Presentation Title (tbd)
Pierre Fraigniaud (CNRS and University Paris Diderot, France)
Computations by Luminous Robots
Paola Flocchini (University of Ottawa, Canada)
Online lower bounds and offline inapproximability in optical networks
Shmuel Zaks (Technion – Israel Institute of Technology, Israel)

13.00-14.00  Lunch

14.00-15.30  Session 7: Mobile Agents II
Wireless Autonomous Robot Evacuation from Equilateral Triangles and Squares
Jurek Czyzowicz (Université du Qu’echec en Outaouais, Canada), Evangelos Kranakis (Carleton University, Canada), Danny Krizanc (Wesleyan University, USA), Lata Narayanan (Concordia University, Canada), Jaroslav Opatrny (Concordia University, Canada), Sunil Shende (Rutgers University, USA)
Rendezvous of Many Agents with Different Speeds in a Cycle
Evan Huus, Evangelos Kranakis (Carleton University, Canada)
The Random Bit Complexity of Mobile Robots Scattering
Quentin Bramas, Sebastien Tixeuil (Sorbonne Universites, France)

15.30  Closing