Program AdHocNow 8 - 11 Jul, 2012

**Sunday, 8th July 2012**

14.00-16.00  Brief tutorials

Barrier Coverage Issues in WSNs (Zhilbert Tafa)
Deployment Approaches for WSNs (Marija Milanovic)
DataMining in WSNs (Nemanja Kojic)

16.00-18.00  Seminar:  Research methods in computer science (Borivoje Djokic)

18.00-20.00  Welcome reception

**Monday, 9th July 2012**

08.45-09.00  Opening Remarks
**09.00- 10.00 Keynote: Evangelos Kranakis:** Algorithmics of Directional Antennae

10.00-10.30  Coffee break

**10.30-12.35 Session 1: Theory and localization**

On Message Complexity of Extrema Propagation Techniques  
Jacek Cichon, Marcin Zawada, Jakub Lemiesz  

Improved Approximation Bounds for Maximum Lifetime Problems in Wireless Ad-hoc Network  
Sang Hyuk Lee, Tomasz Radzik  

Distributed Geometric Distance Estimation in Ad Hoc Networks  
Sabrina Merkel, Sanaz Mostaghim, Hartmut Schmeck  

1-D Coordinate Based on Local Information for MAC and Routing Issues in WSNs  
Alexandre Mouradian, Isabelle Augé-Blum  

Uninterrupted Coverage of a Planar Region with Rotating Directional Antennae  
Evangelos Kranakis, Fraser MacQuarrie, Oscar Morales-Ponce, Jorge Urrutia  

12.35-13.30  Lunch

**13.30 - 15.45 Session 2: Opportunistic communication, DTN and Mobility**

Social Aspects to Support Opportunistic Networks in an Academic Environment  
Radu Ioan Ciobanu, Ciprian Dobre, Valentin Cristea  

Analysing Delay-tolerant Networks with Correlated Mobility  
Mikael Asplund, Simin Nadjm-Tehrani  

Study on the Effect of Network Dynamics on Opportunistic Routing  
Waldir Moreira, Manuel de Souza, Paulo Mendes, Susana Sargento
15.45-16.15 Coffee break

16.15-18.20 Session 3: Sensor Networks

Minimum Latency Aggregation Scheduling for Arbitrary Tree Topologies under the SINR Model
Guanyu Wang, Qiang-Sheng Hua, Yuexuan Wang

An Optimized In-Network Aggregation Scheme for Data Collection in Periodic Sensor Networks
Jacques Bahi, Abdallah Makhoul, Maguy Medlej

Impulsive Interference Avoidance in Dense Wireless Sensor Networks
Nicholas Boers, Ioannis Nikolaidis, Pawel Gburzynski

Resilient Secure Localization and Detection of Colluding Attackers in WSNs
Wei Shi, Meng Yao, Jean-Pierre Corriveau

Low Cost Data Gathering using Mobile Hybrid Sensor Networks
Dan Tao, Shaojie Tang, Huadong Ma

19.30-21.30 Dinner

Tuesday, 10th July 2012

09.00-10.00 Keynote Jaime Lloret:
Cognitive group-based collaborative sensor network for sensing and monitoring the water environment

10.00-10.30 Coffee break

10.30-12.35 Session 4: Platforms and experimentation

Debugging the Internet of Things – a 6LoWPAN/CoAP testbed infrastructure
Daniel Bimschas, Oliver Kleine, Dennis Pfisterer

Evaluating the effectiveness of a QoS framework for MANETs in a real testbed
Álvaro Torres, Carlos Calafate, Juan-Carlos Cano, Pietro Manzoni

Wireless Sensor Network for Continuous Temperature Monitoring in Air-Cooled Data Centers: Applications and Measurement Results
Thomas Scherer, Clemens Lombriser, Wolfgang Schott, Hong Linh Truong, Beat Weiss

Open Platform Semi-passive RFID tag
Tzu Hao Li, Alexey Borisenko, Miodrag Bolic

Study of the Optimum Frequency at 2.4GHz ISM Band for Underwater Wireless Ad Hoc

042
047
063
029
069
030
006
079
018
024
064
058
12.35-13.30 Lunch

13.30 - 15.45 Session 5: Service discovery, Content delivery and Control

A Parameter-Based Service Discovery Protocol for Mobile Ad-Hoc Networks
Unai Aguilera, Diego López-de-Ipiña

RCDP: a novel content delivery solution for wireless networks based on Raptor codes
Miguel Báguena, Carlos Calafate, Juan-Carlos Cano, Pietro Manzoni

Impact of Different Content Placement and Delivery Strategies on Content Delivery Capacity of the Wireless Mesh Networks
Milenko Tošić, Mirko Ćirilović, Ognjen Iković, Daniel Kesler, Staniša Dautović, Dragan Boscovic

Bonjour Contiki: A Case Study of a DNS-based Discovery Service for the Internet of Things
Ronny Klauck, Michael Kirsche

Application-level Operations Latency Control in Networked WSAN
Pedro Furtado, Jose Cecilio

16.00-16.30 Coffee break

16.15-18.20 Session 6: Routing and Message dissemination

Intelligent Multicast Tree Construction Protocol with Optimal Bandwidth Allocation for WSNs
Nedal Ababneh, Antonio M. Ortiz, Nicholas Timmons, Jim Morrison

Reliable Broadcast Protocol Independent of System Parameters for Ad Hoc Networks with Liveness Property
Jerzy Brzeziński, Michał Kalewski, Cezary Sobaniec

Exploiting Asymmetric Links in a Convergecast Routing Protocol for Wireless Sensor Networks
Bilel Romdhani, Dominique Barthel, Fabrice Valois

Energy efficient k-anycast routing in multi-sink wireless networks with guaranteed delivery
Nathalie Mitton, David Simplot-Ryl, Marie-Emilie Voge, Lei Zhang

An Admission Control Scheme based on Links' Activity Scheduling for Wireless Mesh Networks
Juliette Dromard, Lyes Khoukhi, Rida Khatoun

19.30-23.00 Banquet
Dinner, Best paper award(s); Folklor performances

Wednesday, 11th July 2012

08.00-09.00 Keynote: Jelena Misić
Machine to machine communication, challenges, and solutions
09.00-10.30 Tutorial
Vasileios Karyotis and Symeon Papavassiliou:
Complex Evolving Networks: Properties, Dynamics and Applications

10.30-11.00 Coffee break

11.00-13.00 Session 7 Applications and Performance Analysis

Capillary Machine-to-Machine Communications: The Road Ahead
Vojislav Misic, Jelena Misic, Xiaodong Lin, Dragan Nerandzic

Providing QoS in the integration of RFID and Wi-Fi WLAN
Nargis Khan, Jelena Misic, Vojislav Misic, Lutful Karim

Distributed Distance Sensitive iMesh Based Service Discovery in Dense WSAN
Milan Lukic, Ivan Mezei

Quorum based image retrieval in large scale visual sensor networks
Stojan Milovanovic, Milos Stojmenovic

Emulation of Large Scale Wireless Sensor Networks: From Real Neighbors to Imaginary Destination
Bogdan Pavkovic, Jovan Radak, Nathalie Mitton, Franck Rousseau, Ivan Stojmenovic

Enhancing TCP Congestion Control for Improved Performance in Wireless Networks
Breeson Francis, Venkat Narasimhan, Amiya Nayak

13.00-14.00 Lunch

14.00-16.00 Brief tutorials

Mobile Agents in WSNs (Ivan Vukasinovic)
DataMining in WSNs Based on Mobile Agents (Milica Knezevic)
Mutation Algorithms in ANNs (Drazen Draskovic)