## WONS'08 Program

### Wednesday, January 23<sup>rd</sup>

17.30 - 19.30

Special Session: Underwater Networking

Underwater Acoustic Communications: Design Considerations on the Physical Layer

Milica Stojanovic (Massachusetts Institute of Technology)

Towards Optimal Broadcasting Policies for HARQ based on Fountain Codes in Underwater Networks

Paolo Casari, Michele Rossi, Michele Zorzi (Univ. of Padova)

Sewage Grid: Drifting Sensors that Monitor the Wastewater Collection System

Jungsoo Lim, Mario Gerla (Univ. of California at Los Angeles)

Adaptive Routing in Underwater Delay/Disruption Tolerant Sensor Networks

Zheng Guo (Univ. of Connecticut), Gioele Colombi (Univ. of Milano), Bing Wang (Univ. of Connecticut), Jun-Hong Cui (Univ. of Connecticut), Dario Maggiorini (Univ. of Milano), Gian Rossi (Univ. of Milano)

20.00

Dinner

## Thursday, January 24<sup>th</sup>

08.30 - 09.30

Session: Ad Hoc Networks

Modeling and Analysis of Two-Flow Interactions in Wireless Networks

Saquib Razak, Vinay Kolar, Nael Abu-Ghazaleh (State Univ. of New York, Binghamton)

Efficient Assessment of Available Bandwidth During DSR Route Discovery

Stefan Penz, Alexander Achterfeld (RWTH Aachen Univ.)

#### Coffee break

#### 10.00 - 11.00

Session: Admission and Authentication

# Fuzzy Admission Control with Similarity Evaluation for VoW-LAN with QoS Support

Davide Bacciu, Alessio Botta, Leonardo Badia (IMT Lucca Institute for Advanced Studies)

## Reducing the User Authentication Cost in Next Generation Networks

Christoforos Ntantogian, Christos Xenakis, Ioannis Stavrakakis (Univ. of Athens)

#### 11.00 - 12.20

Short papers session

## FRED - An Application for a Real-Life Large Scale Multihop Ad Hoc Network

Nils Glombitza, Martin Lipphardt, Horst Hellbrück, Stefan Fischer (Univ. of Lübeck)

#### VoIP Packet Delay in Single-Hop Ad-Hoc IEEE 802.11 Networks Jaume Barcelló, Boris Bellalta, Cano Cristina, Anna Sfairopoulou (Univ. Pompeu Fabra)

# A Realistic Battlefield Model for the Evaluation of MANET Adrian Pullin (Liverpool Hope Univ.), Colin Pattinson (Leeds Metropolitan Univ.)

## AIS-Lib: An AIS Library for Ad Hoc and Sensor Wireless Networks

Martin Drozda, Sebastian Schildt, Sven Schaust, Sandra Einhellinger, Helena Szczerbicka (Leibniz Univ. of Hannover)

16.30 - 17.00

Coffee break

17.00 - 17.30

Keynote speech

Cooperation of Mobile Devices

Frank H.P. Fitzek (Aalborg University)

Session: Energy Awareness

# Performance Evaluation of IEEE 802.15.4 LR-WPAN for Industrial Applications

Feng Chen, Nan Wang, Reinhard German, Falko Dressler (Univ. of Erlangen-Nuremberg)

18.00 - 19.00

**Short Papers Session** 

Towards a Realistic Energy Model for Wireless Sensor Networks Simon Kellner, Mario Pink, Detlev Meier, Erik-Oliver Blaß (Univ. of Karlsruhe)

Analysis of the Authenticated Query Flooding Protocol by Probabilistic Means

Frank Werner, Peter Schmitt (Univ. of Karlsruhe)

Increasing Throughput for WiseMAC

Philipp Hurni, Torsten Braun (Univ. of Bern)

19.00 - 19.30

Keynote speech

Smart Dust & Cellular Networks – Service opportunities for Mobile Network Operators Hendrik Berndt (DoCoMo Communications Laboratories Europe)

20.00

Conference banquet

Friday, January 25<sup>th</sup>

08.30 - 09.30

Session: Mesh Networks

Route Stabilization in Infrastructured Wireless Mesh Networks: an OLSRD Based Solution

Gianni Costanzi (Univ. di Trento), Andrea Ghittino, Stefano Annese (CSP), Renato Lo Cigno (Univ. di Trento)

#### Performance Evaluation of Disjoint Path Routing for Multiinterface Multi-channel Wireless Mesh Network

Koji Tsubouchi, Yutaka Fukuda, Takeshi Ikenaga, Yuji Oie (Kyushu Institute of Technology)

09.30 - 10.00

Coffee break

10.00 - 12.00

Industry Panel: Wireless Mesh Networking – An industry perspective

Organizer: Bahar Sadeghi

16.30 - 17.00

Coffee break

17.00 - 18.00

Session: Broadcast and Multicast in Ad Hoc Networks

Cooperative Synchronous Broadcasting in Infrastructure-to-Vehicles Networks

Fabio Soldo (Politecnico di Torino), Renato Lo Cigno (Univ. di Trento), Mario Gerla (Univ. of California at Los Angeles)

Application-Layer Multicast in MANETs: To Broadcast or not to Broadcast?

Peter Baumung (Univ. of Karlsruhe)

18.00 - 19.00

Session: Cooperation and DTNs

On the effect of cooperation in wireless content distribution Ólafur Helgason, Gunnar Karlsson (KTH, Royal Institute of Technology)

Performance limits of real delay tolerant networks Alessandro Di Nicolò, Paolo Giaccone (Politecnico di Torino)

19.30

Dinner