

2011 The 10th IFIP Annual Mediterranean Ad Hoc Networking Workshop

(Med-Hoc-Net 2011)

**Favignana Island, Sicily, Italy
12 – 15 June 2011**



IEEE Catalog Number: CFP1143H-PRT
ISBN: 978-1-4577-0898-5

Program

Sunday, June 12

Registration and Welcome Reception

Monday, June 13

MAC and Scheduling

Fast Randomized Algorithm For Hierarchical Clustering In Vehicular Ad-Hoc Networks

Efi Dror (Ben-Gurion University of the Negev, Israel); Chen Avin (Ben-Gurion University of the Negev, Israel); Zvi Lotker (Ben Gurion University, Beer Sheva, Israel)

pp. 1-8

Performance of Dynamic-Frame-Aloha protocols: Closing the gap with tree protocols

Luca Barletta (Politecnico di Milano, Italy); Flaminio Borgonovo (Politecnico di Milano, Italy); Matteo Cesana (Politecnico di Milano, Italy)

pp. 9-16

A Centralized Inter-Network Resource Sharing (CIRS) Scheme in IEEE 802.22 Cognitive Networks

Carla Passiatore (Politecnico di Bari, Italy); Pietro Camarda (Politecnico di Bari, Italy)

pp. 17-24

Coffee Break

Keynote Speech: 4G Mesh Networks

Delay Tolerant Networks

Delay Performance of a Publish Subscribe system deployed over a Memory-Constrained, Delay Tolerant Network

Lorenzo Bracciale (University of Roma "Tor Vergata", Italy); Donato Battaglini (Universita' di Roma Tor Vergata, Italy); Andrea Detti (University of Rome "Tor Vergata", Italy); Giuseppe Bianchi (University of Rome "Tor Vergata", Italy); Nicola Blefari-Melazzi (University of Rome "Tor Vergata", Italy); Andrea Bragagnini (Telecom Italia, Italy); Maura Turolla (Telecom Italia & Strategy and innovation, Italy)

pp. 25-32

DTFR: A Geographic Routing Protocol for Wireless Delay Tolerant Networks

Anna Sidera (University of Cyprus, Cyprus); Stavros Toumpis (Athens University of Economics and Business, Greece)
pp. 33-40

Green Wireless Networking

Green Wireless Networking: Three Questions

Marco G Ajmone Marsan (Politecnico di Torino, Italy); Michela Meo (Politecnico di Torino, Italy)
pp. 41-44

A Power Management Algorithm For Green Femtocell Networks

Fadoua Mhiri (TIME Université & ENIT, Tunisia); Kaouthar Sethom (LIP6, France); Ridha Bouallegue (National Engineering School of Sousse SUP'COM, 6'Tel Laboratory, Tunisia); Guy Pujolle (University Pierre et Marie Curie - Paris 6, France)
pp. 45-49

Social Event – Dinner in Favignana

Tuesday, June 14

Security

Secured Bilateral Rendezvous using Self Interference Cancellation in Wireless Networks

Eun-Kyu Lee (UCLA, USA); Mario Gerla (University of California at Los Angeles, USA)
pp. 50-57

Facing man-in-the-middle and route diversion attacks in energy-limited RFID systems based on mobile readers

Laura Galluccio (University of Catania, Italy); Giacomo Morabito (University of Catania, Italy); Marco Catania (University of Catania, Italy)
pp. 58-64

An Efficient Distributed Privacy-preserving Recommendation System

Frederik Armknecht (Universitaet Mannheim & Group for Theoretical Computer Science and Data Security, Germany); Thorsten Strufe (TU Darmstadt & University of Mannheim, Germany)
pp. 65-70

Coffee Break

Vehicular Network

Secure Neighbor Position Discovery in Vehicular Networks

Marco Fiore (INSA Lyon, France); Claudio E. Casetti (Politecnico di Torino, Italy); Carla-Fabiana Chiasserini (Politecnico di Torino, Italy); Panagiotis (Panos) Papadimitratos (KTH, Sweden)
pp. 71-78

Simulative Performance Evaluation of the simTD Self Organizing Traffic Information System

David Eckhoff (University of Erlangen, Germany); Tobias Gansen (Audi Electronics Venture GmbH, Germany); Robert Mänz (AUDI AG, Germany); Daniela Thum (AUDI AG, Germany); Oliver Klages (c4c Engineering GmbH, Germany); Christoph Sommer (University of Erlangen, Germany)
pp. 79-86

A Comparison of Vehicular Trajectory Encoding Techniques

Markus Koegel (Heinrich Heine University Düsseldorf, Germany); Daniel Baselt (Heinrich-Heine-University Duesseldorf, Germany); Martin Mauve (Heinrich Heine University Düsseldorf, Germany); Björn Scheuermann (University of Würzburg, Germany)
pp. 87-94

VANET Mobility Modeling Challenged by Feedback Loops

Harald Meyer (University of Vienna, Austria); Oscar Trullols-Cruces (Universitat Politècnica de Catalunya, Spain); Andrea Hess (University of Vienna, Austria); Karin Anna Hummel (University of Vienna, Austria); Jose M. Barcelo-Ordinas (Universitat Politècnica de Catalunya (UPC), Spain); Claudio E. Casetti (Politecnico di Torino, Italy); Gunnar Karlsson (KTH, Royal Institute of Technology, Sweden)
pp. 95-102

Poster Session

Broadcast Strategies with Probabilistic Delivery Guarantee in Multi-Channel Multi-Interface Wireless Mesh Networks

Carina Teixeira De Oliveira (Grenoble Informatics Laboratory, France); Fabrice Theoleyre (CNRS - University of Strasbourg & LSIIT, France); Andrzej Duda (Grenoble Institute of Technology, France)
pp. 103-106

A path tracking Algorithm using the IEEE 802.11 Infrastructure

Yacine Mezali (Paris 6, France); Philippe Jacquet (INRIA, France)
pp. 107-110

Architecture of a Communication Middleware for VANET Applications

Luca Caviglione (National Research Council (CNR), Italy); Giuseppe Ciaccio (Universita' di Genova, Italy); Vittoria Gianuzzi (University of Genova (Italy), Italy)

pp. 111-114

Effects of anchor placement on mean-CRB for localization

Naveed Salman (University of Leeds, United Kingdom); Hemat Kumar Maheshwari (University of Leeds, United Kingdom); Andrew H. Kemp (University of Leeds, United Kingdom); Mounir Ghogho (University of Leeds, United Kingdom)

pp. 115-118

Uisce: Characteristic-based Routing in Mobile Ad Hoc Networks

Guoxian Yang (Trinity College, Dublin, Ireland); Stefan Weber (Trinity College Dublin, Ireland)

pp. 119-122

Coloring-based Resource Allocations in Ad-hoc Wireless Networks

Laura Giarre (Università degli Studi di Palermo, Italy); Fabio La Rosa (Università di Palermo, Italy); Raffaele Pesenti (Ca' Foscari Venezia, Italy); Ilenia Tinnirello (University of Palermo, Italy)

pp. 123-126

Comparison of utility functions for routing in cognitive wireless ad-hoc networks

Anna Abbagnale (University of Rome, Italy); Francesca Cuomo (University of Rome Sapienza, Italy); Pierpaolo Salvo (University of Rome La Sapienza, Italy)

pp. 127-130

HRAN: Heat Routing Protocol for Ad-Hoc Networks

Joao Trindade (Instituto Superior Técnico, Portugal); Teresa Vazão (Inesc-ID/ Instituto Superior Técnico, Portugal)

pp. 131-134

Programmable MAC

A Compiler Assisted Approach for Component based Reconfigurable MAC Design

Junaid Ansari (RWTH Aachen University, Germany); Xi Zhang (RWTH Aachen University, Germany); Petri Mähönen (RWTH Aachen University, Germany)

pp. 135-141

Dinner at the conference venue

Wednesday, June 15

Social Networks

Autonomic detection of dynamic social communities in Opportunistic Networks

Eleonora Borgia (IIT-CNR, Italy); Marco Conti (IIT-CNR, Italy); Andrea Passarella (IIT-CNR, Italy)
pp. 142-149

The Human Element as the Key Enabler of Pervasiveness

Silvia Giordano (University of Applied Science - SUPSI, Switzerland); Daniele Puccinelli (University of Applied Sciences of Southern Switzerland, Switzerland)
pp. 150-156

Coffee Break

WSN Test-bed and Platform

An Overlay Network for Integration of WSNs in Federated Stream-Processing Environments

Niko Pollner (University of Erlangen-Nürnberg, Germany); Michael Daum (University of Erlangen-Nuremberg, Germany); Falko Dressler (University of Innsbruck, Austria); Klaus Meyer-Wegener (University Erlangen-Nuremberg, Germany)
pp. 157-164

Experimental Evaluation of a Video Streaming System for Wireless Multimedia Sensor Networks

Stefano Paniga (Politecnico di Milano, Italy); Luca P. Borsani (Politecnico di Milano, Italy); Alessandro E. C. Redondi (Politecnico di Milano, Italy); Marco Tagliasacchi (Politecnico di Milano, Italy); Matteo Cesana (Politecnico di Milano, Italy)
pp. 165-170

Using and Operating Wireless Sensor Network Testbeds

Horst Hellbrück (University of Applied Sciences Lübeck & CoSA Research Group, Germany); Max Pagel (Technical University of Braunschweig, Germany); Alexander Kröller (Braunschweig University of Technology, Germany); Daniel Bimschas (University of Luebeck, Germany); Dennis Pfisterer (University of Luebeck, Germany); Stefan Fischer (University of Luebeck, Germany)
pp. 171-178

Towards Accurate and Agile Link Quality Estimation in Wireless Sensor Networks

Yian Qin (Royal Institute of Technology, Sweden); Zhitao He (SICS, Sweden);
Thiemo Voigt (Swedish Institute of Computer Science, Sweden)
pp. 179-185