



Maui, Hawaii, 7 September 2014 The Ninth ACM Workshop on Challenged Networks Technical Program

08:20 – 08:30 Welcome

08:30 – 09:15 Keynote Talk

Prof. Giovanni Pau, LIP6-UPMC, France

Title: Will ICN ride Challenged Network Environments?

09:15 – 10:00 New scenarios and deployment issues for challenged networks

Enhancing Opportunistic Networks with Legacy Nodes

Marcin Nagy, Teemu Kärkkäinen and Jörg Ott

Opportunistic Interaction in the Challenged Internet of Things

Hanno Wirtz, Jan Rüth, Martin Serror, Jó Ágila Bitsch Link and Klaus Wehrle

10:00 – 10:30 Coffee Break

10:30 – 12:00 Challenged networking solutions for heterogeneous networks

Mind the Gap: Modelling Video Delivery Under Expected Periods of Disconnection

Argyrios Tasiopoulos, Ioannis Psaras and George Pavlou

Flooding data in a cell: Is cellular multicast better than device-to-device communications?

Filippo Rebecchi, Marcelo Dias de Amorim and Vania Conan

A message ferrying approach to low-cost backhaul in cellular networks

Sayed A. Hoseini, Azade Fotouhi, Mahbub Hassan, Chun T. Chou and Mostafa Ammar

Adaptive Data Offloading in Opportunistic Networks through an Actor-Critic Learning Method

Lorenzo Valerio, Raffaele Bruno and Andrea Passarella

12:00 – 13:30 Lunch Break

13:30 – 15:00 Mechanisms for challenged networks

Stalk Me if You Can – The Anatomy of Sybil Attacks in Opportunistic Networks
Sacha Trifunovic and Andreea Hossmann-Picu

Dynamic framework for building highly-localized Mobile Web DTN applications
Kartik Sankaran, Akkihebbal L. Ananda, Mun Choon Chan and Li-Shiuan Peh

Bundle Protocol Header Compression
Martin Wegner, Wolf-Bastian Pöttner and Lars Wolf

WD2: An Improved WiFi-Direct Group Formation Protocol
Hongxu Zhang, Yufeng Wang and Chiu Tan

15:00 – 15:30 Coffee Break

15:30 – 16:10 Demonstrations

RasPiNET: Decentralised Communication and Sensing Platform with Satellite Connectivity
Eiko Yoneki

Opportunistic communications to alleviate cellular infrastructures
Farid Benbadis, Filippo Rebecchi, Florian Cosnier, Matteo Sammarco, Marcelo Dias de Amorim and Vania Conan

Wireless IP mesh on Android for firemen monitoring
Ana Aguiar, Eduardo Soares, Pedro Brandao, Tiago Magalhães, José Maria Fernandes and Ilídio Oliveira

Application-Transparent Deployment of DTN via SmartNet
Lance Alt, Geoffrey Xie and Justin Rohrer

Demo: Enhancing Opportunistic Networks with Legacy Nodes
Teemu Kärkkäinen, Marcin Nagy and Jörg Ott

Mobile Opportunistic System for Experience Sharing (MOSES) in Indoor Exhibitions
Fehmi Ben Abdesslem and Anders Lindgren

16:10 – 17:50 Concise contributions

Congestion Control in Disruption-Tolerant Networks: a Comparative Study for Interplanetary Networking Applications
Aloizio Silva, Scott Burleigh, Celso Hirata and Katia Obraczka

Hot Spot Selection in Rural Access Nanosatellite Networks
Marco Cello, Mario Marchese and Fabio Patrone

Revisiting Pitfalls of DTN Datasets Statistical Analysis
Gwilherm Baudic, Tanguy Perennou and Emmanuel Lochin

On Efficient Data Collection with Delay Minimization in Deep Sea
Jie Wu and Huanyang Zheng

Shared Content Editing in Opportunistic Networks
Teemu Kärkkäinen and Jörg Ott

17:50 – 18:00 Closing remarks