Technical Sessions
June 13th, 2018

09:00-09:30 Welcome and Introduction

09:30-10:30 Keynote 1 - Chair: Salil Kanhere
Dependable Internet of Things – Kay Roemer, TU Graz

10:30-11:00 Coffee Break

11:00-12:30 Session 1A: Network Virtualization
Chair: George Polyzos

[1] Realizing Wireless Communication through Software-defined HyperSurface Environments
Christos Liaskos, Shuai Nie, Ageliki Tsioliaridou, Andreas Pitsillides, Sotiris Ioannidis, and Ian Akyildiz;

Pham Tran Anh Quang, Abbas Bradai, Kamal Deep Singh, and Roberto Riggio;

[3] MANET-oriented SDN: Motivations, Challenges, and a Solution Prototype
Paolo Bellavista, Alessandro Dolci, and Carlo Giannelli;

F. Malandrino, C. Casetti, C.-F. Chiasserini, and G. Landi;

11:00-12:30 Session 1B: Connected Vehicles
Chair: Raffaele Bruno

[1] Performance Analysis of C-V2I-based Automotive Collision Avoidance
M. Malinverno, G. Avino, C. Casetti, C. F. Chiasserini, F. Malandrino, and S. Scarpina;

[2] Performance Analysis of a Device-to-Device Offloading Scheme for Vehicular Networks
Loreto Pescosolido, Marco Conti, and Andrea Passarella;

[3] Efficient Uplink from Vehicular Micro Cloud Solutions to Data Centers
Gurjashan Singh Pannu, Takamasa Higuchi, Onur Altintas, and Falko Dressler;

[4] Infrastructure-Assisted Communication for NDN-VANETs
Eirini Kalogeiton, and Torsten Braun;

12:30-14:00 Lunch Break
WoWMoM 2018 Technical Sessions – June 13th

**14:00-15:30 Session 2A: Device-to-Device and Multimedia**  
*Chair: Symeon Papavassiliou*

[1] Delay-Constrained Profit Maximization for Data Deposition in Mobile Opportunistic Device-to-Device Networks  
Yang Liu, A M A Elman Bashar, BaiJun Wu, and Hongyi Wu;

[2] Infrastructureless Pervasive Information Sharing with COTS Devices and Software  
Noelia Perez Palma, Vincenzo Mancuso, and Marco Ajmone Marsan;

Hatem Ismail, Stefanie Roos, and Neeraj Suri;

Mauro Conti, Ralph Droms, Muhammad Hassan, and Sebastiano Valle;

**14:00-15:30 Session 2B: Cooperative communication and mmWave**  
*Chair: Stefanos Papadakis*

Martin Serror, Sebastian Vaaßen and Klaus Wehrle, and James Gross;

Francesco Devoti, Ilario Filippini, and Antonio Capone;

[3] Proportional Fair Decentralized Scheduling for mmWave D2D Communications  
Gek Hong (Allyson) Sim, and Cristina Cano;

Hany Assasa, Swetank Kumar Saha, Adrian Loch, Dimitrios Koutsonikolas, and Joerg Widmer;

**15:30-16:00 Coffee Break**

**16:00-18:00 Work in Progress Poster Session**  
*Chair: Vasilios Siris*

Sivan Toledo, Yotam Orchan, David Shohami, Motti Charter, and Ran Nathan;

Tobias Meuser, Björn Richerzhagen, Ioannis Stavrakakis, The An Binh Nguyen, and Ralf Steinmetz;

Diogo Lima, Hugo Miranda, and Francois Taiani;

Iordanis Koutsopoulos;
WoWMoM 2018 Technical Sessions – June 13th

   Zeynep Vatandas, Sascha Marco Hamm, Koojana Kuladinithi, Ulrich Killat, Andreas Timm-Giel, and Anna Förster;

[6] **Policy-Based Access Control for Constrained Healthcare Resources**
   Shantanu Pal, Michael Hitchens, Vijay Varadharajan, and Tahiry Rabeaja;

**16:00-18:00 Demonstrations Session**
**Chair: Stefanos Papadakis**

[1] **Demo: A Delay-Tolerant Payment Scheme on the Ethereum Blockchain**
   Ahsan Manzoor, Yining Hu, Madhusanka Liyanage, Parinya Ekparinya, Kanchana Thilakarathna, Guillaume Jourjon, Aruna Seneviratne, Salil Kanhere, and Mika E Ylianttila;

   Ahsan Manzoor, Pawani Porambage, Madhusanka Liyanage, Mika Ylianttila, and Andrei Gurtov;

[3] **A Demonstration of Seamless Inter-Technology Mobility in Heterogeneous Networks**
   Patrick Bosch, Tom De Schepper, Ensar Zeljković, Farouk Mahfoudhi, Yorick De Bock, Jeroen Famaey, and Steven Latré;

[4] **A Demonstration of Privacy-Preserving Aggregate Queries for Optimal Location Selection**
   Cihan Eryonucu, Erman Ayday, and Engin Zeydan;

[5] **A Management Model for Low Powered Wireless Personal Area Networks**
   Yekta Türk, and Ali Akman;

**16:00-18:00 PhD Colloquium Poster Session**
**Chair: Marilia Curado**

[1] **Performance Analysis of Epidemic Routing in Destination-less OppNets**
   Vishnupriya Kuppusamy;

[2] **ATP: A Fast Joining Technique for IEEE802.15.4-TSCH Networks**
   Apostolos Karalis;

   Andrea Capponi;

[4] **A New Objective Function For Hybrid Network In The Smart Grid**
   F. Lemercier, N. Montavont, L. Toutain, and P. Chiummiento;

**17:00-19:00 Welcome Reception**
WoWMoM 2018 Technical Sessions – June 14th

Technical Sessions
June 14th, 2018

09:00-10:30 Session 3A: Radio Resource Management
Chair: Roberto Riggio

1. Coexistence Gaps in Space via Interference Nulling for LTE-U/WiFi Coexistence
   Suzan Bayhan, Anatolij Zubow, and Adam Wolisz;

2. Fair Adaptive Data Rate Allocation and Power Control in LoRaWAN
   Khaled Q. Abdelfadeel, Victor Cionca, and Dirk Pesch;

3. Resource Allocation to Maximize Fairness and Minimize Interference for Maximum Spectrum Reuse in 5G Cellular Networks
   Ajay Pratap, Rajiv Misra, and Sajal K. Das;

4. Lasagna: Programming Abstractions for End-to-End Slicing in Software-Defined WLANs
   Estefanía Coronado, Roberto Riggio, José Villalón, and Antonio Garrido;

09:00-10:30 Session 3B: IoT
Chair: Giacomo Tanganelli

1. Assessing Redundancy Models for IoT Reliability
   Soraya Sinche, Oswaldo Polo, Duarte Raposo, Marcelo Fernandes, Fernando Boavida, André Rodrigues, Vasco Pereira, and Jorge Sá Silva;

2. Design and Evaluation of a Rate-Based Congestion Control Mechanism in CoAP for IoT Applications
   Emilio Ancillotti, Raffaele Bruno, Carlo Vallati, and Enzo Mingozzi;

3. Analysis and Improvement of the On-The-Fly Bandwidth Reservation Algorithm for 6TiSCH
   Francesca Righetti, Carlo Vallati, Giuseppe Anastasi, and Sajal K. Das;

   Sougata Sen, Vigneshwaran Subbaraju, Archan Misra, Rajesh Balan, and Youngki Lee;

10:30-11:00 Coffee Break

11:00-12:30 Panel 1

12:30-14:00 Lunch Break

14:00-15:00 Keynote 2 - Chair: Vasilios Siris
   Network slicing: Enabling Customization in 5G Mobile Networks - Albert Banchs

15:00-15:30 Coffee Break
**WoWMoM 2018 Technical Sessions – June 14**

**15:30-17:15 Session 4A: Routing**  
Chair: Petros Spachos

Stefano Basagni, Valerio Di Valerio, Georgia Koutsandria, and Chiara Petrioli;

George Koufoudakis, Konstantinos Oikonomou, Sonia Aïssa, and Ioannis Stavrakakis;

Evangelos Papapetrou, and Aristidis Likas;

[4] Optimal Number of Paths with Multipath Routing in Hybrid Networks  
Sébastien Henri, and Patrick Thiran;

Georgios Tsoumanis, Konstantinos Oikonomou, Sonia Aïssa, and Ioannis Stavrakakis;

**15:30-17:15 Session 4B: PHY/MAC Layer**  
Chair: Claudio Casetti

[1] IEEE 802.11ah Restricted Access Window Surrogate Model for Real-Time Station Grouping  
Le Tian, Michael Mehari, Serena Santi, Steven Latré, Eli De Poorter, and Jeroen Famaey;

Raphaël Naves, Gentian Jakllari, Hicham Khalife, Vania Conan, and André-Luc Beylot;

Bernhard Großwindhager, Carlo Alberto Boano, Michael Rath, and Kay Römer;

[4] Two-Slot Based Model of the IEEE 802.11ah Restricted Access Window with Enabled Transmissions Crossing Slot Boundaries  
Evgeny Khorov, Andrey Lyakhov, and Ruslan Yusupov;

Nicola Macoir, Matteo Ridolfi, Jen Rossey, Ingrid Moerman, and Eli De Poorter;

**20:30-23:30 Gala Dinner**
Technical Sessions
June 15th, 2018

09:00-10:30 Panel 2

10:30-11:00 Coffee Break

11:00-12:30 Session 5A: Mobility and Location-based Services
Chair: Konstantinos Oikonomou

[1] Better Together: Collaborative Monitoring for Location-based Services
Nils Richerzhagen, Roland Kluge, Björn Richerzhagen, Patrick Lieser, and Boris Koldehoefer, Ioannis Stavrakakis, and Ralf Steinmetz;

[2] MOOC: A Mobility Control based Clustering Scheme for Area Coverage in FANETs
Xiao Cheng, Chao Dong, Haipeng Dai, and Guihai Chen;

[3] Evaluating the Health State of Urban Areas using Multi-source Heterogeneous Data
Dimitrios Tomaras, Vana Kalogeraki, Nikolas Zygorias, Nikolaos Panagiotou, and Dimitrios Gunopulos;

[4] Latency Minimization Through Optimal User Matchmaking in Multi-Party Online Applications
Ning Wang, and Jie Wu;

11:00-12:30 Session 5B: Edge Computing
Chair: Andrea Passarella

Argyrios G. Tasiopoulos, Onur Ascigil, Ioannis Psaras, and George Pavlou;

[2] Composable Distributed Mobile Applications and Services in Opportunistic Networks
Chrysa Papadaki, Teemu Kärkkäinen, and Jörg Ott;

Theodoros Giannakas, Pavlos Sermpezis, and Thrasyvoulos Spyropoulos;

[4] Forecasting mobile service demands for anticipatory MEC
Stavros Ntalampiras, and Marco Fiore;
WoWMoM 2018 Technical Sessions – June 15th

12:30-14:00 N2 Women Meeting & Panel Discussion

Panellists
Dr. Suzan Bayhan, Senior Researcher, TKN, TU Berlin, Germany
Dr. Eirini Eleni Tsiropoulou, Assistant Professor, University of New Mexico
Dr. Marilia Curado, Assistant Professor, University of Coimbra, Portugal
Dr. Maria Papadopouli, Associate Professor, University of Crete, Greece

Organizer: Georgia Koutsandria, Ph.D Student, Sapienza University of Rome, Italy
Mentor: Dr. Maria Papadopouli, University of Crete, Greece

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