

16th Annual Mediterranean Ad Hoc Networking Workshop

Med-Hoc-Net

June 28 – 30, 2017

Budva, Montenegro

www.medhocnet.org



Technical Program

Wednesday, June 28, 2017

9:00 – 9:15 Conference Opening

9:15 – 10:30 Session 1: Mobile ad-hoc networks 1

- **An Anycast Routing Strategy with Time Constraint in Delay Tolerant Networks**
Tuan Le (University of California, Los Angeles, USA); Mario Gerla (University of California at Los Angeles, USA)
- **Multi-Lane Cooperative Shock Wave Mitigation**
R. Vince Rabsatt (University of California Los Angeles, USA); Mario Gerla (University of California at Los Angeles, USA)
- **uDTNSec: A Security Layer for Disruption-Tolerant Networks on Microcontrollers**
Dominik Schürmann (TU Braunschweig, Germany); Georg von Zengen, Marvin Priedigkeit and Lars C Wolf (Technische Universität Braunschweig, Germany)

10:30 – 11:00 Coffee break

11:00 – 12:15 Session 2: Mobile ad-hoc networks 2

- **A Multihop and Multipath Routing Protocol Using NDN for VANETs**
Eirini Kalogeiton (University of Bern); Thomas Kolonko and Torsten Ingo Braun (University of Bern, Switzerland)
- **A Relay Placement Mechanism Based on UAV Mobility for Satisfactory Video Transmissions**
Danileno Rosário and José Arnaldo Filho (UFPA, Brazil); Denis Lima Rosário (Federal University of Para, Brazil); Aldri Santos (Federal University of Parana (UFPR) & Carnegie Mellon University (CMU), Brazil); Mario Gerla (University of California at Los Angeles, USA)
- **ACODS: Adaptive Computation Offloading for Drone Surveillance System**
Woo-Sung Jung (ETRI); Jinhyuk Yim (ETRI, Korea); Young-Bae Ko (Ajou University, Korea); Suresh Singh (Portland State University, USA)

12:15 - 12:30 Poster Introductions

“Wireless”

12:30 – 13:30 Lunch

13:30 - 16:15 Break

16:15 - 17:00 Coffee/ Poster Session

“Wireless”

17:00 – 18:15 Session 3: mmWave Networks

- **Improved User Tracking in 5G Millimeter Wave Mobile Networks via Refinement Operations**
Marco Giordani (Università degli Studi di Padova, Italy); Michele Zorzi (Università degli Studi di Padova, Italy)
- **X-TCP: A Cross Layer Approach for TCP Uplink Flows in mmWave Networks**
Tommy Azzino, Matteo Drago, Michele Polese, Andrea Zanella and Michele Zorzi (University of Padova, Italy)
- **Fair Resource Allocation for D2D Communication in mmWave 5G Networks**
Divija Swetha Gadiraju (IIIT-H, India); Rama Garimella (IIIT Hyderabad, India)

Thursday, June 29, 2017

9:30 – 10:30 Session 4: Invited session on SDN

- **Is SDN the Solution for NDN-VANETs?**
Eirini Kalogeiton (Uni Bern, Switzerland); Zhongliang Zhao and Torsten Ingo Braun (University of Bern, Switzerland)
- **An Efficient Service Channel Allocation Scheme in SDN-enabled VANETs**
Ilavarasi Radhakrishnan (Aalto University, Finland); Ridha Soua (IEEE Member, Luxembourg); Maria Rita Palattella (Luxembourg Institute of Science and Technology (LIST), Luxembourg); Thomas Engel (University of Luxemburg, Luxembourg)

10:30 – 11:00 Coffee break

11:00 – 12:15 Session 5: Wireless Sensor networks & Energy efficient networking

- **Efficient Whale Optimisation Algorithm-Based SDN Clustering for IoT Focused on Node Density**
Thair Abed Al-Janabi (Brunel University, United Kingdom (Great Britain)); Hamed Saffa Al-Rawashidy (University of Brunel, United Kingdom (Great Britain))
- **Link Performance Modeling of Wireless Sensor Network Deployment for Mission-Critical Applications (Underground Deployment)**
Tajudeen Olasupo (Florida Institute of Technology, USA)
- **Energy Consumption Model for Reinforcement Learning Approach to Network Routing**
Maksim Kavalerov, Svetlana Rybnikova and Yuliya Shilova (Perm National Research Polytechnic University, Russia)

12:15 - 12:30 Poster Introductions

“Mobile networks”

12:30 – 13:30 Lunch

13:30 - 16:15 Break

16:15 - 17:00 Coffee/ Poster Session

“Mobile networks”

17:00 – 18h15 Session 6 – Data Transmission Analysis and Strategies

- **Review on Microgrid Communications Solutions: A Named Data Networking - Fog Approach**
Kate Monteiro (Institute Mines-Telecom, Telecom SUDParis, France); Michel Marot (Institut TELECOM Telecom SudParis, France); Hatem Ibn-khedher (Télécom SudParis, Institut Telecom & Paris Saclay, France)
- **Experimental Investigation of the Impact on TCP Traffic by Hidden Video-Tagged UDP Traffic**
Kivanc Cakmak, Ali Ozer Ercan and Oguz Sunay (Ozyegin University, Turkey); Can Ilhan (AirTies Wireless Networks, Turkey); Cagri Sofuoglu (Bogazici University, Turkey); Ceyhan Cakar (AirTies Wireless Networks, Turkey)
- **Performance Analysis of Small Data Transmission Schemes for Cellular M2M Communications**
Mehmet Koseoglu (Hacettepe University, Turkey)

18:15 - 19:00 Panel Session

“The evolution of Ad Hoc Networking in 20 years”

20:00 Gala dinner “Porto Restaurant”

Friday, June 30, 2017

9:30 - 10:30 Keynote speech
“Participatory Internet”
Khalidoun Al Agha
(Green-Communcations, France)

10:30 – 11:00 Coffee break

11:00 – 12:30 Special Session:

- **A new approach to realize drone swarm using ad-hoc network**
Omar Shrit, Steven Martin, Khalidoun Al Agha (LRI - Universitu Paris Sud, France); Guy Pujolle (University Pierre & Marie Curie, France)
- **Stress Monitoring using advanced Cyber Physical Technologies**
Radovan Stojanovic (University of Montenegro, Montenegro)
- **The proximity marketing: a new Eldorado for Wi-Fi**
Guy Pujolle (University Pierre & Marie Curie and Ucopia, France)

12:30 – 13:30 Lunch/ Closing Conference