

IWN 2017

FALCADE

11-13 OF JANUARY 2017

TECHNICAL PROGRAM



DAY 1 – 11TH OF JANUARY

Morning (08:10-12:20) + **Afternoon** (17:00-19:20)

DAY 2 – 14TH OF JANUARY

Morning (08:30-12:10) + **Afternoon** (17:00-19:00)

DAY 3 – 15TH OF JANUARY

Morning (08:30-11:40)

DAY 1 – 11TH OF JANUARY – MORNING SESSION

WN: Wireless Networks (8:10-12:20)

08:10	Welcome Address
08:30	Marco Miozzo, Paolo Dini , "A reinforcement learning approach to control renewable energy spending in energy harvesting cellular networks"
08:50	Mike Ojo , Davide Adami, Michele Pagano, Stefano Giordano, Giuseppe Portaluri, "Centralized Scheduling in TSCH networks for Energy Efficiency"
09:10	Michele Segata , Renato Lo Cigno, "On the Feasibility of Collision Detection in Full-Duplex 802.11 Radio"
09:30	Alessandro Enrico Cesare Redondi, Davide Sanvito , Matteo Cesana, "Passive Classification of Wi-Fi Enabled Devices"
09:50	Coffee Break
10:10	Claudio Pisa, Alberto Caponi , Tooska Dargahi, Giuseppe Bianchi, Nicola Blefari-Melazzi, "WI-FAB: attribute-based WLAN access control, without pre-shared keys and backend infrastructures"
10:30	Evgeny Khorov, Anton Kiryanov, Alexander Krotov, Pierluigi Gallo , Domenico Garlisi, and Ilenia Tinnirello, "Joint Usage of Dynamic Sensitivity Control and Time Division Multiple Access in Dense 802.11ax Networks"
10:50	C. Capretti, Francesco Gringoli , N. Facchi, and P. Patras, "LTE/Wi-Fi Co-existence under Scrutiny: An Empirical Study"
11:10	Vincenzo Inzillo , Floriano De Rango, Alfonso Arisa Quintana, "A new fast convergence adaptive algorithm for Smart Antenna Systems in Mobile Ad Hoc Networks"
11:30	SEMINAR – Stefano Basagni (Northeastern, Boston, US)
12:20	Beyond Duty Cycling: How Wake-up Radio Technology and Semantic Addressing Enable Decade-long Lived Wireless Sensing Systems

DAY 1 – 11TH OF JANUARY – AFTERNOON SESSION

MA: Mobile Applications (17:00-19:20)

16:30	Afternoon Snack
17:00	Matteo Gadaleta , Michele Rossi, "Human Authentication From Ankle Motion Data Using Convolutional Neural Networks"
17:20	Savio Sciancalepore, Fabio Ricciato , Francesco Gringoli, Niccolo Facchi, Gennaro Boggia, "Generalised localisation of a non-cooperative source from asynchronous TOA and TDOA measurements"
17:40	Christian Quadri , Sabrina Gaito, Gian Paolo Rossi, "Big-data inspired, proximity-aware 4G/5G service supporting urban social interactions"
18:00	P. Castagno , V. Macuso, M. Sereno, M. Ajmone, "Why your smartphone doesn't work in very crowded environments"
18:20 19:20	SEMINAR – David López-Pérez (Nokia Bell Laboratories, IR) On the Evolution of Wireless Networks

DAY 2 – 12TH OF JANUARY – MORNING SESSION

NAM: Novel Architectures & Methodologies (08:30-12:10)

08:30	Renato Lo Cigno , Leonardo Maccari, Nicolò Facchi, "An Interdisciplinary Approach to Alternative Internets"
08:50	D. Kanakidis, E. Sdongos, A.Amditis, D. Lavaux, N. McCrone, J. Jackson, M. Tsagkaropoulos, J. Burns, T. Lavander, P. Tyczka, H. Gierszal, P.S. Antonio, M. Casoni , "PPDR-TC White Paper: The Strategic Roadmap for Next Generation (Broadband) PPDR Communication Systems"
09:10	Bahare Masood Khorsandi , Carla Raffaelli, Matteo Fiorani, Lena Wosinska, Paolo Monti, "BBU hotel protection in C-RAN architecture"
09:30	Chiara Carusi, Lorenzo Bracciale, Giuseppe Bianchi , "Handling uncertainty in crowd-sourcing"
09:50	Coffee Break
10:10	Simon Pietro Romano , A. Amirante, T. Castaldi, L. Miniero, "Jattack: a WebRTC stressing tool"
10:30	INVITED PAPER – Julinda Stefa (Univ. of Rome "La Sapienza") To Hover or not to Hover: Privacy Issues in Android
11:10	SEMINAR – Emilio Calvanese Strinati (CEA-LETI)
12:10	Computation Caching: a new frontier for Mobile Edge Cloud

DAY 2 – 12TH OF JANUARY – AFTERNOON SESSION

NFV: Network Softwarization (17:00-19:00)

16:30	Afternoon Snack
17:00	Salvatore D'Oro, Laura Galluccio, Sergio Palazzo, Giovanni Schembra , "Service Chain Composition, Resource Allocation and Orchestration in an NFV Marketplace"
17:20	Giuseppe Portaluri , Stefano Giordano, "A Topology-Aware Scheduler for MPI Collectives in Software Defined Data Centers"
17:40	Luca Petrucci, Nicola Bonelli, Marco Bonola , Gregorio Procissi, Carmelo Cascone, Davide Sanvito, Salvatore Pontarelli, Giuseppe Bianchi, Roberto Bifulco, "Towards a Stateful Forwarding Abstraction to Implement Scalable Network Functions in Software and Hardware"
18:00	Raffaele Bolla, Roberto Bruschi, Franco Davoli, Chiara Lombardo, Jane Frances Pajo, Odnan Ref Sanchez , "A glimpse into the energy efficiency of network softwarization"
18:20	INVITED PAPER – Costin Raiciu (Un. Polit. Bucuresti, Romania)
19:00	Symnet: scalable symbolic execution for modern networks

DAY 3 – 13TH OF JANUARY – MORNING SESSION

PE: Performance Evaluation & Algorithms (08:30-11:40)

08:30	Chiara Pielli , Cedomir Stefanovic, Petar Popovski, Michele Zorzi, "Minimizing Data Distortion of Periodically Reporting IoT Devices with Energy Harvesting"
08:50	Pierluigi Gallo , "e-Fair: a Novel e-Commerce Model that Exploits Economies of Scale"
09:10	Matteo Fiorani, Paolo Monti, Carla Raffaelli, Federico Tonini , Lena Wosinska, "Joint Planning Optimization of Fiber Backhaul and Small Cells for Urban Event Service Provisioning"
09:30	P. L. Ventre, C. Pisa, S. Salsano , G. Siracusano, F. Schmidt, P. Lungaroni, N. Blefari-Melazzi, "Performance Evaluation and Tuning of Virtual Infrastructure Managers for Unikernel support"
9:50	Coffee break
10:10	Franco Callegati, Walter Cerroni, Chiara Contoli , Francesco Foresta, "Performance of Intent-based Virtualized Network Infrastructure Management"
10:30	Peter Megyesi, Alessio Botta , Giuseppe Aceto, Antonio Pescapè, and Sandor Molnar, "Available Bandwidth Measurement in Software Defined Networks"
10:50	Carmelo Cascone , Luca Bianchi, Brunilde Sansò, Antonio Capone, "UGUALE: fair bandwidth sharing via dynamic queue assignment"
11:10	Savio Sciancalepore , Daniele Caldarola, Giuseppe Piro, Gennaro Boggia, Giuseppe Bianchi, "On the road towards authenticated and authorized access in federated IoT platforms"
11:30 11:40	Closing remarks