

11th Italian Networking Workshop

Cortina d'Ampezzo, Italy – January 15-17, 2014



	Wednesday, Jan. 15th	Thursday, Jan. 16th	Friday, Jan. 17th
8:00 - 8:15	Welcome address	Session 4: Cloud networking and virtualization	Session 7 Emerging network architectures
8:15 - 10:00	Session 1: Green wireless networks		
10:00 - 10:20	Coffee break	Coffee break	Coffee break
10:20 - 10:30		Session 5: Network performance and monitoring	Session 8: Information-centric and P2P networking
10:30 - 12:00	Session 2: Energy-aware networking		
12:00 - 17:00	Long break and coffee	Long break and coffee	
17:00 - 17:45	Tutorial session	Session 6: Emergency networks	
17:45 - 18:40	Session 3: Wireless networks algorithms and performance		
18:40 - 19:30		Challenging topic: Microfluidic networking	
19:30 - 19:50		Challenging topic: Data analytics	
19:50 - 19:55			
20:00 - 21:30		Social dinner	
21:30 - 23:00		Project coordination meeting	

Wednesday, January 15th

8:00 – 8:15	Welcome Address
8:15 - 10:00	Session 1: Green wireless networks (Chair: Michele Rossi)
	Invited presentation: A new WiFi energy model with experimental validation <i>A. Azcorra</i>
	Context Management in Energy-efficient Radio Access Networks <i>Alessandro Redondi, Ilario Filippini, Antonio Capone</i>
	Towards Zero Grid Electricity Networking: Powering BSs with Renewable Energy Sources <i>Marco Ajmone Marsan, Giuseppina Bucalo, Alfonso Di Caro, Michela Meo, Yi Zhang</i>
	On the Performance of Lossy Compression Schemes for Energy Constrained Sensor Networking <i>Davide Zordan, Borja Martinez, Ignasi Vilajosana and Michele Rossi</i>
10:00 - 10:30	Coffee break
10:30 - 12:00	Session 2: Energy aware networking (Chair: Luca Chiaraviglio)
	OSPF optimization via dynamic network management for green IP networks <i>Antonio Capone, Carmelo Cascone, Luca G. Gianoli, Brunilde Sansò</i>
	Adaptive Frequency Control of Packet Processing Engines in Core Networks <i>Roberto Bruschi, Franco Davoli, Maurizio Mongelli</i>
	A Closed-Form Model for the IEEE 802.3az Network and Power Performance <i>R. Bolla, R. Bruschi, A. Carrega, F. Davoli, P. Lago</i>
	Privacy-Enhanced Load Scheduling of Domestic Appliances in Smart Grids <i>Cristina Rottondi and Giacomo Verticale</i>
12:00 - 17:00	Long break and coffee
17:00 - 17:45	Tutorial session
	Cognitive Access Policies under a Primary ARQ process via Forward-Backward Interference Cancellation <i>Michele Zorzi</i>
17:45 - 19:50	Session 3: Wireless networks algorithms and performance (Chair: Giovanni Schembra)
	Behavioral analysis of human mobile communications <i>S. Gaito, C. Quadri, G.P. Rossi, M. Zignani</i>
	A Passive Solution for Interference Estimation in WiFi Networks <i>Claudio Rossi, Claudio Casetti, Carla-Fabiana Chiasserini</i>
	A game-theoretic model of timing-channel-based anti-jamming techniques in wireless networks <i>S. D'Oro, L. Galluccio, G. Morabito, S. Palazzo, L. Chen, F. Martignon</i>
	Adaptive retry limit setting for video delay/distortion control in IEEE 802.11e ad-hoc networks <i>Fulvio Babich, Massimiliano Comisso, Riccardo Corrado</i>
	A First Implementation and Evaluation of the IEEE 802.11aa Group Addressed Transmission Service <i>Pablo Salvador, Luca Cominardi, Francesco Gringoli, Pablo Serrano</i>

Thursday, January 16th

8:00 - 10:00	Session 4: Cloud networking and virtualization (Chair: Roberto Bruschi)
	An Analytical Approach to Design Network Function Virtualization capabilities for a Telco Operator Network <i>Simona Cappello, Alfio Lombardo, Antonio Manzalini, Vincenzo Riccobene, Giovanni Schembra</i>
	Live Migration of Virtual Network Functions in Cloud-Based Edge Networks <i>Walter Cerroni, Franco Callegati</i>
	Software router migration: an experimental evaluation <i>Daniele Carletti, Vincenzo Eramo, Antonio Cianfrani, Emanuele Miucci</i>
	SOLEIL - Streaming Of Large-scale Events over Internet cLOUDs <i>A. Amirante, T. Castaldi, L. Miniero, S.P. Romano</i>
	Understanding the Dynamic Behaviour of the Google Congestion Control for RTCWeb <i>Luca De Cicco, Gaetano Carlucci, Saverio Mascolo</i>
10:00 - 10:20	Coffee break
10:20 - 12:00	Session 5: Network performance and monitoring (Chair: Cristina Rottondi)
	Network optimization problems subject to max-min fair flow allocation <i>Edoardo Amaldi, Antonio Capone, Stefano Coniglio, and Luca G. Gianoli</i>
	Router-based and client-based platforms for performance measurement and censorship detection <i>Giuseppe Aceto, Alessio Botta, Walter de Donato, Antonio Pescapé, Giorgio Ventre</i>
	Performance analysis of LTE downlink signals time of arrival estimation for opportunistic positioning <i>Marco Driusso, Fulvio Babich</i>
	Robust, Optimal, and Secure Protocols in the IETF 6TiSCH stack <i>N. Accettura, G. Boggia, L. A. Grieco, G. Piro</i>
12:00 - 17:00	Long break and coffee
17:00 - 18:40	Session 6: Emergency networks (Chair: Maurizio Casoni)
	Managing Challenges to Effective Emergency Management: The Added Value of E-SPONDER in Mitigating Challenges Arising from Emergency Situations <i>E. van der Spil, M. Schaap, W. Overdijk, P. Pouschat, F. Giroud, C. Picard</i>
	The Communication Infrastructure for Future Emergency Systems <i>M. Casoni, D. Saladino, A. Marousis, K. Maliatsos, A. Karagiannis</i>
	The E-SPONDER system test-bed <i>Alex Bartzas, Julien Castet, Tonny Velin, Anastasis Tzoumpas, Kai Hackbarth</i>
	Sensor networks for the first responder of the future <i>J. Wagner, N. Joram, B. Al-Qudsi, F. Ellinger, L. Caldani, R. Paradiso, D. Karamitros, A. Bartzas, R. Gentsch, K. Maliatsos, A. Marousis, A. Karagiannis</i>
18:40 - 19:30	Challenging topic: Microfluidic networking (Chair: Stefano Giordano)
	When bits get wet: Introduction to microfluidic networking <i>Andrea Zanella, Andrea Biral</i>

	Microfluidic Communication and Networking: a challenging research area <i>L. Donvito, L. Galluccio, A. Lombardo, and G. Morabito</i>
19:30 - 19:55	Challenging topic: Data analytics (Chair: Stefano Giordano)
	Rating raters by their ratings: an iterative approach to weight conference peer reviews <i>A. Spalvieri, G. Bianchi, M. Magarini, S. Mandelli</i>
20:00 - 21:30	SOCIAL DINNER
21:30 - 23:00	Project coordination meeting

Friday, January 17th

8:00 - 10:00	Session 7: Emerging network architectures (Chair: Walter Cerroni)
	Unbundling in optical access networks based on PON: results from the PRIN project "ROAD-NGN" <i>Roberto Gaudino, Romeo Giuliano, Franco Mazzenga, Luca Valcarenghi, Francesco Vatalaro</i>
	Energy-Efficient Routing and Wavelength Assignment in Translucent Optical Networks <i>Angelo Coiro, Marco Listanti, Francesco Matera</i>
	Multi-stage switching networks for waveguide optical technology <i>Dario Garao, Guido Maier, Achille Pattavina</i>
	Scalability Analysis of SDN-controlled Optical Ring MAN with Hybrid Traffic <i>Carla Raffaelli, Norvald Stol, Raimena Veisllari</i>
	Stateful Openflow: reclaiming smartness in "dumb" openflow switches <i>G. Bianchi, M. Bonola, A. Capone, C. Cascone</i>
10:00 - 10:20	Coffee break
10:20 - 12:00	Session 8: Information-centric and peer-to-peer networking (Chair: Riccardo Corrado)
	A ICN based Service Platform for Smart City <i>G. Piro, I. Cianci, L. A. Grieco, G. Boggia, P. Camarda</i>
	Efficient Network Content Distribution: Analyzing Caching Performance of CCN and CDN Architectures <i>Michele Mangili, Fabio Martignon, Antonio Capone</i>
	Towards Communication Strategies for Platooning: Simulative, Experimental, and Theoretic Evaluation <i>Michele Segata, Bastian Bloessl, Stefan Joerer, Christoph Sommer, Mario Gerla, Renato Lo Cigno, Falko Dressler</i>
	Real Time Streaming Experiments in Wireless Community Networks <i>Luca Baldesi, Leonardo Maccari, Renato Lo Cigno</i>