

APPLEPIES 2017

Thursday September 21		
11.00	Opening	Alessandro De Gloria
11.10	Keynote speech <i>Sensing electronic systems for autonomous vehicles</i>	Sergio Saponara, University of Pisa, IEEE Distinguished Lecturer
12.20	<i>FPGA based Digital Lock-In Amplifier for fNIRS systems</i>	G. Costantino Giaconia, Giuseppe Greco, Leonardo Mistretta and Raimondo Rizzo
12.40	<i>FPGA Implementation of a Low-power QRS extractor</i>	Francesca Silvestri, Simone Acciarito, Gian Carlo Cardarilli, Gaurav Mani Khanal, Luca Di Nunzio, Rocco Fazzolari and Marco Re
13.00	Lunch	
14.30	<i>Real-time DNN-based Face Identification for the Blind</i>	Jhilik Bhattacharya, Francesco Guzzi, Stefano Marsi, Sergio Carrato and Giovanni Ramponi
14.50	<i>A thermoelectric powered system for skiing performance monitoring</i>	Matteo Nardello, Pietro Tosato, Maurizio Rossi and Davide Brunelli
15.10	<i>Model-Order Reduction Procedure for Fast Dynamic Electrothermal Simulation of Power Converters</i>	Antonio Pio Catalano, Michele Riccio, Lorenzo Codecasa, Vincenzo d'Alessandro, Luca Maresca, Gianpaolo Romano, Alessandro Magnani, Niccolò Rinaldi, Giovanni Breglio and Andrea Irace
15.30	<i>A novel wearable sensor system for Multi-lead ECG measurement</i>	Michele Caldara, Daniele Comotti, Luigi Gaioni, Andrea Pedrana, Matteo Pezzoli, Valerio Re and Gianluca Traversi
15.50	<i>Analysis and simulations of mmW transceiver for System-in-Package communications</i>	Sergio Saponara, Gabriele Ciarpi and Filippo Giannetti
16.10	Coffee break	
16.40	<i>A new recognition procedure for palmprint features extraction from ultrasound images</i>	Donatella Nardiello and Antonio Iula
17.00	<i>Real-Time In-Line Industrial Fluids Characterization Using Multiple Pulse Repetition Frequency</i>	Valentino Meacci, Riccardo Matera, Johan Wiklund and Stefano Ricci
17.20	<i>Exploring Particle Swarm Optimization to Build a Dynamic Charging Electric Vehicle Routing Algorithm</i>	Oussama Smiai, Francesco Bellotti, Riccardo Berta and Alessandro De Gloria
17.40	<i>FPGA Implementation of a Channelizer with 2048 Channels utilizing USRP-SDR Platform for Satellite Communications</i>	Simone Acciarito, Gian Carlo Cardarilli, Daniele Giardino, Gaurav Mani Khanal, Luca Di Nunzio, Rocco Fazzolari, Marco Re and Francesca Silvestri
18.00	End of the presentations	

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Thursday September 22		
9.30	Keynote speech	Luciano Pini, ST Microelectronics
10.30	<i>A wireless sensor node for Acoustic Emission non destructive testing</i>	Gian Carlo Cardarilli, Luca Di Nunzio, Rocco Fazzolari, Marco Re, Carlo De Petris, Giuseppe Augugliaro and Canio Mennuti
10.50	<i>Multi-sensors exhaust gas emission monitoring system for industrial applications</i>	Tommaso Addabbo, Francesco Bardi, Stefano Cioncolini, Ada Fort, Marco Mugnaini, Lorenzo Parri and Valerio Vignoli
11.10	Coffee break	
11.30	<i>The microarchitecture of a multi-threaded RISC-V compliant processing core family for IoT end-nodes</i>	Abdallah Cheikh, Gianmarco Cerutti, Antonio Mastrandrea, Francesco Menichelli and Mauro Olivieri
11.50	<i>Digital Architecture of Next Generation Spacecraft Tracker Based on Wideband DELTA DOR</i>	Gian Carlo Cardarilli, Luca Di Nunzio, Rocco Fazzolari, Marco Matta, Marco Re, Dario Gelfusa, Simone Lorenzo, Gaurav Mani Khanal, Francesca Silvestri and Simone Acciarito
12.10	<i>Challenging CPS Trade-Off Adaptivity with Coarse-Grained Reconfiguration</i>	Francesca Palumbo, Carlo Sau, Tiziana Fanni and Luigi Raffo
12.30	<i>A Low-Cost Smart Microwave Radar for Short Range Measurements</i>	Alina Caddemi and Emanuele Cardillo
12.50	<i>Integrated Microwave Photonics: Overview and Promising Space Applications</i>	Francesco Dell'Olio, Giuseppe Brunetti, Donato Conteduca, Noè Giovinazzi, Nicola Sasanelli, Caterina Ciminelli and Mario Nicola Armenise
13.10	End of the conference	