

Day 1 – Thursday, Sept. 15th

10.30	Welcome and opening	Alessandro De Gloria
10.45	Keynote speech	Luca Benini
	Session 1 – Energy and environment	Chair: Calogero Pace
11.20	“Long-range Radio for Underground Sensors in Geothermal Energy Systems”	E. Bedeschi, D. Brunelli, M. Ferrari, F. Tinti and A. Barbaresi
11.35	“Low dose-rate, high total dose testing for rad-hard CMOS I/O circuits”	C. Pace, L. Fragomeni, A. Parlato, A. Solano, N. Marchese and D. Fiore
11.50	“Flora Monitoring with a Plant-Microbial Fuel Cell”	D. Brunelli, P. Tosato and M. Rossi
12.05	“Embedding Monitoring Systems for Cured-In-Place Pipes”	L. Mistretta, G. C. Giaconia, A. Valenza, E. Napoli, C. Gianguzzi, V. Lo Presti and F. Di Puma
12.20	“Engaging Self-Powered Environmental Sensors Via Serious Gaming”	M. Pozzi and P. Sgardelis
12.35	“Delay Tolerant Wireless Sensor Network for Animal Monitoring: the Pink Iguana Case”	P. Loreti, L. Bracciale, A. Catini and G.e Gentile
12.55	Lunch	
	Session 2 - Automotive	Chair: Sergio Saponara
14.15	“Testing of DC/DC Converters for 48 V Electric Vehicles”	A. Sisto, S. Saponara, G. Ciarpi, F. Iacopetti and L. Fanucci
14.30	“A Serious Game Architecture for Green Mobility”	P. Kumar Paranthaman, G. Dange, F. Bellotti, R. Berta, A. De Gloria and E. Di Zitti
14.45	“Design and Implementation of a Engine Control Unit for a CFR Spark Engine”	C. Maniscalco, V. Di Majo, E. Pipitone and G. C. Giaconia
15.00	“Maximizing Power Transfer for Dynamic Wireless Charging Electric Vehicles”	V. Cirimele, O. Smiai, P. Guglielmi, F. Bellotti, R. Berta and A. De Gloria
15.15	“Developing ICT Solutions for Dynamic Charging of Electric Vehicles”	O. Smiai, F. Bellotti, R. Berta, A. De Gloria, M. Marchesoni and A. Winder
15.30	Coffee break	
	Session 3 - Miscellaneous	Chair: Costantino Giaconia
15.45	“High Resolution Time Domain Reflectometry for Dielectric State Monitoring in High Voltage Cables”	G. Randazzo, A. Di Stefano and G. C. Giaconia
16.00	“Embedded System for Prosthetic Interface Mapping of Lower Limbs Amputees”	M. Rossi, L. Lorenzelli and D. Brunelli
16.15	“Wideband mmWave Antenna for Wireless Network-on-Chip/Network-on-Board Communications”	S. Saponara and B. Neri
16.30	“Compressive Sensing Reconstruction for Complex System: a Hardware/Software Approach”	S. Acciarito, G. C. Cardarilli, L. Di Nunzio, R. Fazzolari, G. Khanal and M. Re
16.45	“Wake up for Power Line Communication in street lighting networks”	P. Golchin, P. Tosato and D. Brunelli
17.00	“Failure effect analysis of patch-clamp electronic instrumentation in electrophysiology experiments”	S. Saponara, F. Fusi, S. Saponara and Massimo Macucci
17.15	“A calorimetry based system for measuring the power losses of switching power devices”	D. Iero, F. Della Corte and M. Merenda

Day 2 – Friday, Sept. 16th

	Session 4 – ICs and memories	Chair: Mauro Olivieri
10.00	"An Emulator for Approximate Memory Platforms Based on QEmu"	G. Stazi, F. Menichelli and M. Olivieri
10.15	"Performance Evaluation of Non Volatile Memories with a Low Cost and Portable Automatic Test Equipment"	G. Alieri, G. C. Giaconia, L. Mistretta, F. La Rosa and A. A. Cimino
10.30	"Failure analysis of plastic packages for low-power ICs"	S. Saponara, L. Fanucci and G. Ciarpi
	Section 5 - Smart cities	Chair: Davide Brunelli
10.45	"A contactless, energy-neutral power meter for Smart City Applications"	C. Villani, S. Benatti, D. Brunelli and L. Benini
11.00	"Towards a Virtual Reality Interactive Application for Truck Traffic Access Management"	A. Cavallo, A. Robaldo, F. Bellotti, R. Berta, I. Carmosino and A. De Gloria
	Session 6 – Signal processing and communications 1	Chair: Gian Carlo Cardarilli
11.15	"RFID Eavesdropping Using SDR Platforms"	F. Le Roy, T. Quiniou, A. Mansour, R. Lababidi and D. Le Jeune
11.30	"Emerging Applications of Whispering Gallery Mode Photonic Resonators"	C. Ciminelli, G. Brunetti, F. Dell'Olio, F. Innone, D. Contedduca and M. N. Armenise
11.45	"Non Destructive Ultrasound Equipment to Evaluate the Concrete Compressive Strength"	V. Meacci, S. Ricci, A. Bruehwiler and D. Lootens
12.00	Keynote speech	Giovanni Busatto and Paolo Mattavelli
12.25	Lunch	
13.50	Keynote speech	Nicola Capovilla
	Session 7 – Signal processing and communications 2	Chair: Gian Carlo Cardarilli
14.05	"Pulse compression: from radar to real-time ultrasound systems"	A. Ramalli, A. Dallai and E. Boni
14.20	"ZnO-rGO Composite Thin Film Resistive Switching Device"	G. M. Khanal, G. C. Cardarilli, S. Acciarito, L. Di Nunzio, R. Fazzolari, A. Cristini, G. Susi, M. Re and A. Chakraborty
14.35	"Experimental evaluation of 3D Ultrasound Palmprint recognition techniques based on curvature methods and under skin principal lines"	A. Iula and D. Nardiello
14.50	Design contest awards	Pio Quarticelli
15.50	Conclusions	Alessandro De Gloria