

IEEE Research and Technologies for Society and Industry – IEEE RTSI 2018

Program schedule

MON Sep 10

Time		Location	Aula Magna	Room 1- Track 1	Room 2- Track2	Room 3- Track 2	Room 4- Tutorial	Room 5
9:00 10:30			<p>Welcome Session and Keynote Speech:</p> <p>Gerard-Andre Capolino (IEEE Fellow Chair Professor of Electrical Engineering) - <i>Energy efficiency improvement for electrical machines: a challenge</i></p>					
10:30 12:30	Exhibition & YP event			<p>10:30 - 12:45</p> <p>1.1 Smart electric energy systems</p> <p>Invited: Roberto Candela (Prysmian Electronics, Italy) - <i>From an idea to a true company</i></p>	<p>10:30 - 12:45</p> <p>2.8 Biomechanical models in tissue engineering</p> <p>Invited: Nicola Lopomo (University of Brescia, Italy) - <i>Sensing Scaffolds for Cell Monitoring in Tissue Engineering</i></p>	<p>2.5 Photonic technologies for industry 4.0</p> <p>Invited: Cosimo Gerardi (ENEL Green Power 3SUN – Catania, Italy) - <i>High efficiency Si - HJT solar cells: innovative PV technology for reducing energy generation costs</i></p> <p>Invited: Fabrizio Buccheri (Prysmian Electronics) - <i>Distributed Fiber Sensing Techniques for the Power Cable Industry</i></p>	<p>Tutorial Track 1: Towards connected vehicles enabled smart transportation</p> <p>S. Djahel (Manchester Metropolitan University, UK)</p>	
12:30 13:00		Exhibition & YP Demo Competition Time						
13:00 14:00		Lunch						
14:00 16:00		Panel 1 - Chair - Carlo Alberto Nucci - "Smart energy systems for smart city districts"						
16:00 16:30		Coffee Break						
16:30 18:30	Exhibition & YP event			<p>1.11 Power Electronics and Drives for Sustainable Transportation</p> <p>Invited: Paolo Mattavelli (University of Padova, Italy) - <i>Bidirectional Converter Topologies For Low-Voltage Battery Interface: A Comparison</i></p>	<p>2.2+2.3 Robotics and autonomous systems</p> <p>Invited: Emanuele Garone (Université Libre de Bruxelles, Belgium) - <i>It's not MPC ! An Explicit Reference Governor for the supervision of constrained nonlinear systems</i></p>	<p>3.2 Sensor networks</p> <p>Invited: Luca Zaccarian (Univ. Trento, Italy) - <i>Distributed estimation based on multi-hop subspace decomposition</i></p>		MEETING WITH INDUSTRY
19:30 20:30	Welcome Reception: the Botanical Garden of the University of Palermo							

TUE Sep 11

Time	Location	Aula Magna	Room 1 - Track 1	Room 2 - Track 2	Room 3 - Track3	Room 4 - Tutorial	Room 5	
09:00 10:30	Exhibition & YP event		<p>1.2 Electricity from renewable energy A</p> <p>Invited: Diego Arnone (Engineering SpA) - <i>Smart solutions for balancing power grid with high penetration of renewable</i></p>	<p>2.9 A Advanced numerical modelling A & 3.9 Power-awareness and resource management in mobile and IoT computing systems</p> <p>Invited: Michele Piana (University of Genova, Italy) - <i>An I4.0 technology for space weather using satellite data</i></p>	<p>3.1 Experimental research and prototyping towards 5G and beyond</p> <p>Invited: Ivan Seskar (Rutgers University, USA) - <i>Towards the Next Generation of Wireless Networking Testbeds</i></p>		<p>Student Branch meeting</p>	
10:30 11:00		Coffee Break						
11:00 13:00		<p>Panel 2 - Chairs: Leopoldo Angrisani and Mauro Mosca – “Smart Technologies & Best Practices for Industry 4.0 and Digital Transformation”</p>						
13:00 14:00		Lunch						
14:00 14:30	<p>Exhibition & YP Demo Competition Time</p>							
14:30 16:30	Exhibition		<p>14:30-16:45</p> <p>1.2 Electricity from renewable energy B</p> <p>1.4 Smart net zero energy buildings</p>	<p>2.9 Advanced numerical modelling B</p> <p>Invited: Sara Carcangiu (University of Cagliari, Italy) - <i>A Locally Recurrent Neural Network Based Approach for the Early Fault Detection</i></p>	<p>3.5 Blockchain technologies: challenges and opportunities</p> <p>Invited: Ivan Visconti (University of Salerno, Italy) - <i>Blockchain Technology Beyond Cryptocurrencies</i></p>	<p>Tutorial Track 2: Additive manufacturing and 3D printing for medicine: experiences and opportunities</p> <p>F. Auricchio (University of Pavia, Italy)</p>	<p>Student Branch and student events</p>	
16:30 17:00		Coffee Break						
17:00 19:00				<p>1.3 Advanced materials for photovoltaic applications</p> <p>Invited: Sara Pescetelli – (Univ. Roma Tor Vergata, Italy) <i>Graphene and related 2D materials: a winning strategy for enhanced efficiency and stability in perovskite photovoltaics</i></p> <p>Invited: Rosaria Puglisi (CNR-IMM – Catania, Italy) <i>Silicon nanowires obtained by plasma based CVD for application in solar cells</i></p>	<p>2.1 Computer vision</p> <p>Invited: Alessandro Capra (STMicroelectronics) - <i>Computer Vision in Embedded Devices</i></p>	<p>3.7 Contact Management in connected Society & Enterprises</p> <p>Invited: Sylvie Despres (Université Paris Nord, France) - <i>Modular Ontology Overview and Usecases. What advantages for the industry?</i></p>		<p>Student Branch and student events</p>

WEN Sep 12

Time	Location	Aula Magna	Room 1- Track 1	Room 2- Track2	Room 3- Track3	Room 4- Tutorial	Room 5	
09:00 11:00	Exhibition		<p>1.9 Remote sensing models and methods to support sustainable development and disaster management A</p> <p>Invited: Daniele Riccio (Univ. Napoli Federico II, Italy) - <i>Spaceborne Synthetic Aperture Radars for the Next Decade</i></p>	<p>2.6 Nanotechnologies for industry 4.0</p> <p>Invited: Alberto Pasquarelli (Ulm University, Germany) - <i>Nanowire technology for sensing applications</i></p>	<p>3.6 5G, from technology to its enabled applications</p> <p>Invited: Samuela Persia, (Fondazione Ugo Bordonini, Italy) - <i>EMF Exposure evaluations for Future Networks Based on TDD and Massive MIMO: New International Regulations</i></p>	<p>Tutorial: Ethical considerations in system design A.G. Hessami (Vega Systems, UK)</p>	WIE event	
11:00 11:30		Coffee Break						
11:30 13:00			<p>1.9 Remote sensing models and methods to support sustainable development and disaster management B</p> <p>1.5 Smart communities for resilient and innovative cities</p> <p>Invited: Roberto Lippi – (Coordinador para los Países Andinos, Bogotá -Programa de Naciones Unidas para los Asentamientos Humanos, ONU-HABITAT) - <i>Open Cities: Towards a New Governance of Cities and Territory</i></p>	<p>2.6 Nanotechnologies for industry 4.0 B</p> <p>Invited: Yogendra Kumar Mishra (Kiel University Germany) - <i>Flame based ZnO tetrapod nanomaterials for multifunctional applications</i></p>	<p>11:30-13:15 3.10 High Integrity and High Accuracy for Intelligent Transportation Systems</p> <p>Invited: Roberto Capua (SOGEI, Italy) - <i>GNSS High Precision for Anyone: Dream or Reality?</i></p>	<p>Tutorial: The role of Competence Center in the Industry 4.0 Plan Fabrizio Dughiero (University of Padova, Italy - SMICT Competence Center of Triveneto) Leopoldo Angrisani (University of Napoli -Federico II, Italy Competence Center Napoli-Bari)</p>	WIE event	
13:00 14:00	Lunch							
14:00 14:30			Exhibition Time					
14:30 16:15	Exhibition		SPECIAL MEETING ON INNOVATIVE START UP & ENTREPRENEURS					
16:15 16:45		Coffee Break						
16:45 19:00			SPECIAL MEETING ON INNOVATIVE STARTUP & ENTREPRENEURS					
20:00 23:00	Social Dinner & Award Ceremony: “Palazzo Fatta”, Piazza Marina, Palermo							

THU Sep 13

Time	Location	Aula Magna	Room 1- Track 1	Room 2- Track2	Room 3- Track2&3	Room 4- Tutorial	Room 5	
09:00 10:30	Exhibition		1.7 Sustainable marine transportation Invited: Bruno Tevené (Chief Technology Office - Underwater Systems, Leonardo Defence Systems, Italy) - <i>Modern marine transportation systems: safety, security and environmental aspects</i>	2.7 Compliant non-destructive testing Invited: Luca De Rai (Prysmian Group) - <i>Use of non-disruptive electrical tests for selection and characterization of materials for EHV cables</i>	2.4 Safety, Security and Privacy for Cyber-Physical Systems Invited: Franco Davoli (University of Genova, Italy) - <i>Building trusted and reliable services over Cyber-Physical Systems</i>	Tutorial Track 3: Machine-Type Communications (MTC) in 5G: challenges, algorithmic design and performance analysis M. Assaad (Centrale Supélec, France)		
10:30 11:00		Coffee Break						
11:00 13:00		Panel 3 - Chairs: Dajana Cassioli and Fabrizio Granelli - "ICT at the service of the citizen: best practices and business cases"						
13:00 14:00	Lunch							
14:00 16:00			1.8 Environmental monitoring and prediction Invited: Anne Johannet (IMT Mines Alès, France) - <i>Extracting information from a neural network: from statistics to physical processes. Application in hydro(géo)logy</i>	2.10 Smart technologies and modelling for avionics Invited: Alberto Reatti (University of Firenze, Italy) - <i>Resonant circuits for Wireless Power Transfer and possible application to avionics</i>	3.3 Telemedicine and e-Health: medical image data and datasets into healthcare interoperability with IoT 3.4 Distributed ICT for health and wellness Invited: Pietro Siciliano (IMM-CNR, Lecce, Italy) - <i>Smart Devices for Health and AAL in the new concept of Smart Living</i>			
16:00 16:30		Closing Session						
16:30 18:30							ITALY SECTION EXCO with Coffee Break	