

# 4<sup>th</sup> International Forum on Research and Technologies for Society and Industry

*Innovation to shape the future*

Palermo, Italy, 10-13 Sep 2018

Organized by the IEEE Italy Section and University of Palermo  
<http://rtsi2018.ieeesezioneitalia.it>

**CALL FOR PAPERS**

#### General Chairs

Guido Ala, University of Palermo  
Tiziana Tambosso, IEEE Italy Section Chair

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Dario Petri, IEEE Italy Section National Association Liaison Committee  
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#### Technical Program Committee Chair

Bernardo Tellini, IEEE Italy Section Vice-Chair

#### Technical Program Committee co-Chair

Gaetano Zizzo, University of Palermo

#### Track Chairs

##### TRACK 1: SUSTAINABLE DEVELOPMENT FOR CITIES AND ENVIRONMENT

Fabio Massaro, University of Palermo  
Giambattista Grusso, IEEE Italy Section

##### TRACK 2: SMART EMERGING TECHNOLOGIES FOR INDUSTRY 4.0

Mauro Mosca, University of Palermo  
Leopoldo Angrisani, IM Chapter chair

##### TRACK 3: ICT FOR FUTURE NETWORKS

Dajana Cassioli and Fabrizio Granelli  
COM/VT Chapter Chair

#### Secretariat

Marco Trapanese, University of Palermo

#### Tutorial Chair

Salvatore Favuzza, University of Palermo

#### Exhibition Chair

Salvatore Favuzza, University of Palermo  
Fabio Montagnino, Consorzio ARCA

#### Publicity Chair

Vincenzo Di Dio, University of Palermo

#### Publication Chair

Daniela Proto, IEEE Italy Section

#### Special meeting for innovative start-up & entrepreneurs

Vincenzo Di Dio, University of Palermo  
Giovanni Perrone, President PNICube  
Pietro Erratico, IEEE Italy Section Afl Coordinator

#### Women in engineering affinity group meeting

Dajana Cassioli, IEEE Italy Section WIE-AG Chair

#### Young Professional Demo Competition Event

Ferdinando Nunziata, IEEE Italy Section, YP-AG Chair

#### Student Activity

Marco Santambrogio, IEEE Italy Section SAC Coordinator

#### Treasurer

Sergio Rapuano, IEEE Italy Section Treasurer

#### Organization Committee

Salvatore Basile, Riccardo Burlon, Vincenzo Di Dio, Luigi Dusonchet,  
Salvatore Favuzza, Elisa Francomano, Graziella Giglia, Mariano Giuseppe  
Ippolito, Fabio Massaro, Pietro Romano, Gaetano Zizzo

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Research and innovation are key factors for changes towards a more sustainable economy able to create new job opportunities, to fuel productivity and wealth. Countries investing in research and innovation are more resilient to an economic crisis, react promptly to the great societal challenges of our time, and perform better in the strong global competition that continuously shapes economies and societies. The purpose of RTSI forum is to promote and to strengthen partnerships and cooperation between academia and industry; to discuss interdisciplinary ideas and to promote cross-fertilizing cooperation among researchers working in different research areas; to increase the public understanding and awareness of how engineering and technology can positively affect people quality of life; to promote discussion between the research community and related government bodies about effective and successful research policies; to disseminate recent advancements, research/technology solutions, and novel applications.

**The three main areas of interest and the related technical sessions are the following**

Sustainable development for cities and environment	Smart emerging technologies for Industry 4.0	ICT for future networks
1.1. <i>Smart electric energy systems</i> Chairs: S. Massucco, E. Riva Sanseverino	2.1. <i>Computer vision</i> Chair: M. La Cascia	3.1. <i>Experimental research and prototyping towards 5G and beyond</i> Chairs: L. Da Silva, I. Tinnirello
1.2. <i>Electricity from renewable energy</i> Chair: M. Trapanese	2.2. <i>Robotics and Autonomous Systems</i> Chairs: A. Fagiolini, L. Pallottino	3.2. <i>Sensor networks</i> Chair: F. D'ippolito
1.3. <i>Advanced materials for photovoltaic applications</i> Chair: A. Agresti, I. Crupi	2.3. <i>Social Robotics</i> Chairs: A. Chella, L. Pallottino	3.3. <i>Telemedicine and e-Health: medical image data and datasets into healthcare interoperability with IoT</i> Chairs: G. Caruso, L. Rovati
1.4. <i>Smart net zero energy buildings</i> Chairs: M. Cellura, S. Massucco	2.4. <i>Safety Security and Privacy for Cyber- Physical Systems</i> Chairs: S. Foresti, P. Gallo	3.4. <i>Distributed ICT for health and wellness</i> Chairs: F. Irrera, M. A. Paun
1.5. <i>Smart communities for resilient and innovative cities</i> Chairs: S. Epifani, D. Ronsivalle	2.5. <i>Photonic technologies for industry 4.0</i> Chairs: A. Busacca, S. Pietralunga	3.5. <i>Blockchain technologies: challenges and opportunities</i> Chairs: G. Bianchi, F. Chiaraluce
1.6. <i>Sustainable agriculture</i> Chairs: L. Bascetta, P. Inglese	2.6. <i>Nanotechnologies for industry 4.0</i> Chair: R. Macaluso	3.6. <i>5G, from technology to its enabled applications</i> Chairs: F. Graziosi, L. Valcarenghi
1.7. <i>Environmental monitoring and prediction</i> Chairs: A. Genovese, R. Garello	2.7. <i>Compliant non-destructive testing</i> Chair: P. Romano	3.7. <i>Contact Management in connected Society &amp; Enterprises</i> Chairs: M. H. Abel, H. Karray
1.8. <i>Sustainable marine transportation</i> Chair: M. Marracci	2.8. <i>BioMechanical aspects in Tissue Engineering</i> Chair: M. Zingales	3.8. <i>IoT technologies for healthcare in emergency-related environments</i> Chairs: J. L. Ayala Rodrigo, L. Cerina
1.9. <i>Remote sensing models and methods to support sustainable development and disaster management</i> Chairs: A. Iodice, F. Nunziata	2.9. <i>Advanced numerical modelling</i> Chairs: E. Francomano, A. Laudani	3.9. <i>Power-awareness and resource management in mobile and IoT computing systems</i> Chairs: D. Sciuto, S. Campanoni
1.10. <i>Exploiting adaptability in modern computing systems through dynamic reconfiguration</i> Chairs: W. Luk, M. D. Santambrogio	2.10. <i>Smart technologies and modelling for avionics</i> Chairs: A. Faba, A. Milazzo	3.10. <i>High Integrity and High Accuracy for Intelligent Transportation Systems</i> Chairs: C. Sacchi, C. Stallo
1.11. <i>Power Electronics and Drives for Sustainable Transportation</i> Chair: M. Di Benedetto	2.11. <i>Computing in Heterogeneous, Autonomous 'N' Goal-oriented Environments</i> Chairs: H. Hoffmann, M. D. Santambrogio	

Prospective Authors of papers are invited to submit a paper (typically 4-6 pages in standard IEEE two-column format) via EDAS by suggesting the related Track and Technical Session. The paper should contain a complete description of the proposed contribution along with results, suitably framed in the related state of the art. Each paper will be reviewed in terms of relevance with respect to the scope of the event, originality and quality of the technical content, overall organization and writing style. Papers must be prepared according to the Author's instructions reported on the RTSI 2018 Website: <http://rtsi2018.ieeesezioneitalia.it>

Submission of papers implies intention to register and present the related content at the conference. Proceedings papers presented at the Conference will be submitted for inclusion in the IEEE Xplore Digital Library.

#### IMPORTANT DATES

Submission of draft papers	9 April 2018
Notification of acceptance	18 June 2018
Final submission	29 June 2018
Early registration	9 July 2018