



**IEEE RTSI 2019, 5th forum on Research and
Technology for Society and Industry Firenze, 9-12
September 2019**

Call for papers

Three tracks focused on challenging and emerging issues in the field of
Smart Energy
Smart Mobility
Industry 4.0

IEEE RTSI 2019 is the 5th Forum on Research and technology for Society and Industry focusing on contemporary society and industry topics ranging from mobility, industry 4.0 issues, energy, power quality, electronics, controls, manufacturing, communications and computational intelligence.

Join us in this exciting event where industry experts, researchers, and academics share ideas and experiences surrounding frontier technologies, breakthrough and innovative solutions and applications.

Regular sessions within the scope of the following Technical Topics, but not limited to:

TRACK 1 - Smart Energy

- 1) Power Systems and Smart Grids;
- 2) Power Electronics Converters, Electrical Machines and Industrial Drives;
- 3) Power Management and Smart Building Technologies;
- 4) Renewable Energy and Energy Storage Systems;
- 5) Linear and Non-linear Modeling and control Circuits and Systems;
- 6) Neural Networks and Neuromorphic Systems;
- 7) Energy Harvesting, and Wireless Power transfer.

TRACK 2 - Smart Mobility, Logistics and Environment

- 1) Automotive technologies, electric vehicle transportation systems, environmental impact of electric vehicles, autonomous vehicles, road user safety;
- 2) Transportation electrification, new electric & hybrid vehicle concepts and architectures, interconnected users, vehicles and cities;
- 3) Integrated and intelligent logistics, business models for smart mobility of people and goods, commercial vehicle operations;
- 4) Transportation networks, advanced public transportation management, charging infrastructure and grid integration, Informative systems and services, shared mobility road, and rail traffic management;
- 5) Ports, waterways, inland navigation, and vessel traffic management and shipboard electrical power systems;
- 6) Air transportation, avionics and aerospace, more electric aircrafts.

TRACK 3 - Industry 4.0

- 1) Cybersecurity;
- 2) Big data for Internet of things;
- 3) Automation, robotics and smart factories;
- 4) Localization: RFID technologies, wireless sensor networks, algorithms;
- 5) Sensors and transducers, integration of sensors, active and passive sensors, sensor modeling and analysis, environmental sensing;
- 6) Nanotechnologies for industry 4.0;
- 7) Photonic technologies, lasers and 3D printing for industry 4.0;

Special Session Proposal

To enhance the technical program and focus on specific topics and areas, RTSI 2019 will include special sessions, in addition to regular ones.

Special sessions can cover subjects or cross-subjects belonging to the topics of interest, or novel topics related with the ones identified within the topics of interest. Special sessions can also have the drive from specific R&D projects or clusters of projects, namely EU-sponsored R&D projects. If you are interested in organizing a special session, please contact TPC Co-Chair at daniela.proto@unina.it.

Please send proposals in pdf format to the Special Sessions Co-Chairs, special-XXXX, by e-mail.

The deadline of the Special Session proposals is **February 22, 2019**. Following information is necessary in the proposal:

- ✓ Session title and abstract
- ✓ Rationale of the necessity for the Special Session at RTSI 2019; the rationale should emphasize the novelty of the topic and/or its multidisciplinary features (if any)
- ✓ Short biography of the session organizer(s)
- ✓ List of (at least) eight papers including titles, authors with corresponding author contact information and short biography, and short abstract.

Important aspect in the evaluation of special session proposals will be the timeliness of the topic, quality/track record of the proposers and speakers, coherence of the session and expected value added to the overall technical program. Notifications of acceptance/rejection will be provided by the date at the end of this call for papers.

After Special Session proposals are approved, manuscripts must be submitted to the special sessions and should conform to the formatting and electronic submission guidelines of regular RTSI papers. Paper due is according to the date at the end of this call for papers. Then papers will undergo the same review process as regular papers. It is the responsibility of the session organizers to ensure that their Special Session papers meet ISCAS quality standards. If, at the end of the review process, fewer than eight papers are accepted, the session will be cancelled and the accepted papers will be moved to regular sessions.

Other Activities

In addition to technical papers, a wide range of complementary activities for professional development are foreseen, supporting specific discussions among participants, with emphasis on industry-academia interactions, women in engineering, engagement of students and young professionals:

- 4th Industry Forum • 3rd Women in Engineering Forum • Students and Young Professional Forum,
- Forum on Innovative start up and entrepreneurs • Panels with industries

Tutorials

Several tutorials are planned on the latest trends in industrial electronics and industrial informatics taking place on September 9th, 2019.

If you are interested in organizing a tutorial, please contact Tutorials Chair at francesco.grasso@unifi.it

Submission of Papers

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 Topic. 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 2019 Website: <http://rtsi2019.ieeesezioneitalia.it>

Submission of papers implies intention to register and present the related content at the conference.

The final manuscript must be accompanied by a registration form and a full registration fee payment proof.

Proceedings papers presented at the Conference will be submitted for inclusion in the IEEE Xplore Digital Library.

Important Dates:

Deadline for submission of Special Technical Sessions proposals: February 22, 2019

Deadline for submission of tutorials proposals: May 15, 2019

Deadline for submission of regular papers and Special sessions papers: April 8, 2019

Notification of acceptance: June 14, 2019

Deadline for submission of final manuscripts & author registration: June 28, 2019

Early registrations: July 5, 2019