SPLITECH

12TH INTERNATIONAL CONFERENCE ON
SMART & SUSTAINABLE TECHNOLOGIES

SPLIT - BOL, CROATIA / JUNE 14-17, 2027

International Symposium on RFID, Electromagnetics, and Electronics for IoT Devices - The Hardware Side of IoT

GENERAL CHAIR:



LUCA CATARINUCCI
UNIVERSITY OF SALENTO, ITALY

CALL FOR PAPERS

Originally rooted in RFID research, the International Symposium on RFID, Electromagnetics, and Electronics for IoT Devices has progressively expanded to embrace a broader spectrum of electromagnetic and electronic technologies. Organized within the framework of SpliTech 2027, the symposium provides a dedicated forum for hardware-oriented research spanning RFID, antennas, RF and microwave circuits, electromagnetic systems, and enabling technologies for IoT and wireless applications.
The symposium is co-sponsored by the IEEE Council on RFID and the IEEE Communications Society and focuses on the physical and technological building blocks that enable identification, sensing, wireless communication, and interconnected electronic systems.

Its aim is to highlight recent scientific advances, innovative concepts, and experimental developments in RFID, electromagnetics, and electronics, with particular emphasis on hardware design, implementation, and validation. Contributions addressing both theoretical and applied aspects are welcome, provided they demonstrate a clear connection to hardware-level challenges and solutions.
Particular attention is devoted to RF and microwave circuit design, antenna technologies, integrated hardware solutions, co-design methodologies, and optimization strategies aimed at improving system performance, reliability, efficiency, and scalability.

By bringing together researchers, engineers, and practitioners from complementary disciplines, the symposium encourages the exchange of ideas, discussion of emerging challenges, and development of collaborations across the RFID, electromagnetics, and electronics communities.

Publication

Accepted and presented papers will be included in the conference proceedings and submitted to IEEE Xplore, as well as other Abstracting and Indexing (A&I) databases. Depending on the symposium schedule, accepted contributions may be presented either as oral presentations or posters.
Selected papers of outstanding quality will be invited to submit an extended version for possible publication in the IEEE Journal on RFID, indexed in Scopus and Web of Science.

Topics of Interest

Authors are warmly invited to submit original contributions, either complete or in progress, related to the following topics (but not limited to):

- Tag and Tag Antenna Design
- Reader and Reader Antenna Design
- Smart Devices Employing Electromagnetic Technologies, including LoRa, BLE, and UWB
- UWB RFID Systems
- IoT Electronics
- NFC Technology and Systems
- RFID Performance and Evaluation
- Eco-friendly RFID Solutions
- RF Front-End Design for IoT Devices
- AI Applications in RFID
- Advanced RFID Tags and Systems
- Communication Protocols for RFID
- RFID Data Management and Applications
- Supply Chain Solutions Using RFID
- 3D Printing and Additive Manufacturing in RFID/IoT
- RFID Applications in Healthcare
- Enhanced-Capability RFID Tags
- RFID for Sensing Applications
- Industrial IoT Solutions
- Chipless RFID Systems
- RFID for Smart Living and Cities
- Prototyping RFID Systems
- Case Studies and Applications in RFID/IoT
- RFID Integrated with Physical User Interfaces
- Circuit Design for RFID Systems
- Sensor Networks Enhanced by RFID
- Next-Generation RFID and IoT Technologies
- Circuit Design for Energy Harvesting in RFID Systems
- Low-Power Circuit Design for IoT Devices
- Signal Integrity and Noise Management in RFID/IoT Circuits
- RFID Reader Circuits and Signal Processing
- Advanced Modulation Techniques for IoT Communications
- Antenna Matching and Tuning Circuits for RFID/IoT
- Security Features in RFID/IoT Circuit Design
- Printed Electronics and Flexible Circuits for RFID/IoT
- Integration of Sensors with RFID/IoT Circuits
- IoT Node Architecture and System-on-Chip (SoC) Solutions
- Wireless Power Transfer and Inductive Coupling in IoT Devices
- RFID and IoT Device Testing and Reliability Analysis

FULL PAPER SUBMISSION FEBRUARY 18, 2027

NOTIFICATION OF ACCEPTANCE APRIL 16, 2027

CAMERA READY PAPER MAY 1, 2027

SUBMIT PAPER HERE

VISIT OUR WEBSITE FOR MORE INFORMATION

HTTPS://SPLITECH.ORG/