

IEEE RFID-TA 2027

Kuala Lumpur, Malaysia
20-22 September 2027

17th IEEE International Conference on RFID
Technology and Applications

Call for Papers

The 17th IEEE International Conference on RFID Technology and Applications (IEEE RFID-TA 2027) is seeking high quality submissions for papers (3 pages minimum) on RFID (Radio Frequency Identification) and adjacent topics. IEEE RFID-TA 2027 is an opportunity to share, discuss, and witness research results in all areas of RFID technology and its applications.

Topics

RFID Hardware and Architectures

- Active and passive RFIDs
- Smart, and programmable tags
- Chip-less RFID systems
- RFID antenna design and characterization
- Circuit design and characterization for readers and tags
- Millimeter-wave RFIDs
- Integration of sensors in RFID tags
- RFID and novel materials
- RFID manufacturing
- Wearable RFID electronics
- Frequency selective surfaces
- Neuromorphic RFID circuits

RFID Communication and Signal Processing Techniques

- Coding and modulation schemes for RFID
- Backscatter communication techniques
- Signal processing for ultra-low-power RFID
- MIMO, UWB, and hybrid RFID systems
- Near field communication (NFC)
- Channel measurement and modeling

Dual-track submission procedure

Option A: Conference paper submitted to RFID-TA (3–4 pages)

Option B: Journal paper submitted to JRIFD + RFID-TA (Subject to EIC approval)

IEEE RFID-TA 2027 will be co-located with the IEEE WiSEE 2027, offering expanded opportunities for interdisciplinary collaboration.

RFID Applications and Emerging Use Cases

- RFID in healthcare, wearables, and medical tracking
- Precision agriculture and environmental monitoring
- Security and cyber-physical techniques
- RFID in industrial settings and supply chain management
- Artificial intelligence for RFID systems
- Next-generation RFID applications
- RFID integration in IoT ecosystems
- RFID biomedical sensing
- RFID-based localization and positioning

Power and Energy Solutions

- Energy harvesting in RFID
- Wireless power transfer
- Low-power circuit and protocol design
- Energy-efficient sensing architectures
- Sustainability and green RFID technologies

Publication Opportunity

Presented papers of RFID-TA 2027 will be included in IEEE Xplore subjected to IEEE approval

Important Dates

- Paper Submission Deadline
May 1, 2027
- Notification of Acceptance
June 15, 2027
- Full Paper Submission
July 15, 2027
- Early Bird Registration Deadline
July 15, 2027

Venue

Berjaya Times Square,
Kuala Lumpur



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