

IEEE RFID 2027

The 21st International Conference on RFID and Trade Show
Memphis, TN | 14-17 June, 2027 | 2027.ieee-rfid.org



IEEE

Call for Papers, Posters, and Proposals Submission



The **21st IEEE International Conference** on RFID and Trade Show (IEEE RFID 2027) invites high-quality paper submissions on all aspects of RFID research and applications. Join us in Memphis, TN, June 14-17, 2027, to share and explore the latest in RFID technology.

Antennas & Propagations

- RFID antenna theory, design, and characterization
- MIMO, UWB, and hybrid antenna systems for RFID
- Near-field communications (NFC) and short-range RFID
- Channel modeling and RF propagation measurements

Circuits, Tags & Hardware Design

- Circuit designs for RFID
- Reader architectures
- Multi-reader coordination and interference reduction
- Chipless RFID technology
- Programmable/reconfigurable tags
- RFID inlay specs and performance
- Smart Materials for RFID

Sensing, Localization & Motion Capture

- Motion capture and gesture recognition using RFID
- RFID-based localization, tracking and RF tomography
- Multi-modal sensing using RFID

Applications & Software

- RFID software, middleware, networking, infrastructures for IoT
- RFID for high-consequence applications
- RFID applications in wearables, agriculture, retail, logistics, fashion
- RFID in Industry 5.0 and Smart Cities
- Inlays procurement
- RFID-enabled Digital Product Passport

Next-Gen RFID & ID+

- Green technologies for RFID
- Advanced coding and modulation
- Wi-Fi- & BLE-assisted RFID
- Novel materials in RFID
- Novel RFID measurement techniques
- Millimeter-wave, THz & optical RFID
- AR/VR in RFID

Protocols & Security

- Cybersecurity and cryptography
- Privacy-enhancing and anti-counterfeiting techniques
- High-speed data capture
- Physical layer security
- Proof of interaction

Ideas? Please submit your proposal at <https://bit.ly/4qXZsMk>

Potential Topics:

- RFID for high-consequence applications
- GS1 round table Q&A
- Energy harvesting
- Artificial intelligence for RFID
- Digital twins and cyber-physical radio systems
- New manufacturing techniques and prototyping
- Smart materials
- Flexible electronics
- Trends in RFID tag design
- Industry sessions

For questions, please contact workshop@ieee-rfid.org

Workshop Topics



Visit our conference website for more information!

Special Sessions – Submit your proposal at <https://bit.ly/4iEsbDw>

For questions, please contact specialsession@ieee-rfid.org

- Special Sessions Proposal Deadline:
- Workshops Proposal Deadline:
- Option B Paper Submission Deadline:
- Option A Paper Submission Deadline:
- Notification of Option A Paper Acceptance:*
- Poster Abstract Submission Deadline:
- Notification of Poster Acceptance:
- Final Paper Submission:

NOV 10 2026
DEC 10 2026
DEC 21 2026
JAN 14 2027
MAR 30 2027
APR 8 2027
APR 20 2027
MAY 5 2027

All deadlines are at 11:59pm UTC-12

Authors of Accepted Papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements, and are enrolled in the IEEE RFID 2027 Best Paper and Best Student Paper Competitions ... Don't miss out!

* Option B submissions are handled by the JRFID editorial board. Manuscript review and revision procedures will follow the traditional JRFID review process and timeline. If accepted, Option B authors will need to also submit a 1-page abstract to conference website.

Dual Track Paper Submission

- **Option A:** Conference paper (4-6 pages) submitted through the conference website/EDAS portal
- **Option B:** Journal paper (no page limit) submitted through the IEEE Author Portal

Special Issue in IEEE Journal of RFID

An extended version of the conference papers (Option A) will be invited to a special issue of the IEEE JRFID (IF 2025: 3.7; CiteScore 2025: 8.4).

Poster Submission:
1-page abstract

Submission Options

IEEE RFID 2027 Committee

General Chair: **Kevin Berisso**, Memphis AutoID (US)
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