# CALL FOR PAPERS

## IEEE Internet of Things Journal

### Special Issue on Smart Radio Environments for the Internet of Everything

The Internet of Everything (IoE) demands wireless networks that deliver ubiquitous, reliable, low-latency, and energy-efficient connectivity to massive heterogeneous devices under tight spectrum, power, and hardware constraints. Smart Radio Environments (SREs), enabled by reconfigurable intelligent surfaces, dynamic metasurface antennas, fluid or flexible antenna systems, and holographic MIMO, turn the medium into a programmable resource, shaping propagation, improving coverage and reliability, enabling integrated sensing, communication, and computing, and supporting green deployments across terrestrial and non-terrestrial segments. Coupled with cell-free/user-centric architectures, AI-native control, and semantic or task-oriented communication, SREs unlock new degrees of freedom for IoE design and operation.

This Special Issue invites original research and visionary articles on SRE-enabled IoE systems spanning theory, algorithms, architectures, and experimentation. We particularly welcome contributions that bridge models to system-level design with demonstrated practicality, scalability, and real-world implementability in IoE scenarios. Topics of interest include, but not limited to:

- EM and channel modeling of RIS/DMAs/FAS/holographic MIMO in dense IoE scenarios
- Information-theoretic limits and performance bounds for SRE-assisted IoE
- SRE-assisted architectures for Massive IoT and IoE
- Multiple access in large-scale SRE deployments for IoE networking
- Waveform design for SRE-aided IoE
- SRE-enabled Integrated Sensing, Communication, and Computing
- SRE-enabled cell-free and user-centric architectures for uniform IoE coverage
- RIS/DMA/FAS/holographic MIMO-assisted access schemes for URLLC IoT
- Semantic- and task-oriented communication over SRE-enabled IoE networks
- Security, privacy, and reliability analysis for SREs-enabled IoE
- AI-native Control and Cross-layer Co-design for large-scale IoE networks
- Foundation/large-model-enabled control for SRE orchestration under IoE constraints
- Agentic AI for closed-loop SRE management
- SRE-enabled solutions for industrial IoT
- Testbeds and prototypes of SRE-assisted IoT/IoE systems
- Standardization and protocol design of SRE technologies within 3GPP, IEEE, and IoT ecosystems

## Important Dates

- Submission Deadline: August 31st, 2026
- First Review Due: October 20th, 2026
- Revision Due: November 30th, 2026
- Second Reviews Due/Notification: January 15th, 2027
- Final Manuscript Due: February 28th, 2027
- Publication Date: May 2027

## Submission

The original manuscripts to be submitted need to follow the guidelines at: https://ieee-iotj.org/wp-content/uploads/2025/02/IEEE-IoTJ-Author-Guidelines.pdf, which should not be concurrently submitted for publication in other venues. Authors should submit their manuscripts through the IEEE Author Portal at: https://ieee.atyponrex.com/journal/iot. The authors must select as "Special Issue on Smart Radio Environments for the Internet of Everything" when they reach the "Article Type" step in the submission process.

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