

IEEE Transactions on Consumer Electronics

Call for Papers

Special Section on “Proactive Threat Hunting and Anomaly Detection in Consumer Electronics for Next-Generation Intelligent Systems”

Theme:

Consumer electronics such as smart vehicles, wearable devices, intelligent transportation systems, and connected home technologies are increasingly shaping the future of personalized services, predictive maintenance, and intelligent decision-making. However, the growing reliance on these systems introduces significant cybersecurity, privacy, and reliability challenges that require proactive defense strategies beyond conventional methods.

This Special Section (SS) will focus on proactive threat hunting, intelligent anomaly detection, and resilient security frameworks to safeguard consumer electronics in next-generation intelligent systems. Contributions are expected to emphasize novel algorithms, system models, architectures, and real-world applications that address the trust, privacy, and safety concerns of consumer technologies.

Topics of interest in this Special Section include (but are not limited to):

- Proactive threat hunting and anomaly detection in consumer electronic ecosystems
- AI/ML-driven intrusion detection and predictive threat models for consumer devices and vehicles
- Blockchain and distributed ledger technologies for secure consumer operations
- Privacy-preserving and lightweight cryptography for consumer IoT and electronics
- Defenses against adversarial AI and resilience against zero-day threats
- Secure integration of electronics in intelligent vehicles, transportation, and smart mobility
- Trust management and user-centric security models in consumer electronics
- Testbeds, benchmarks, and real-world case studies in threat mitigation
- Security, personalization, and usability in consumer electronic applications
- Cross-domain anomaly detection in 6G-enabled consumer ecosystems

Important dates:

- **Submissions Deadline: February 28, 2026**
- **Tentative Publication Date: 4th Quarter, 2026**

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Instructions for authors:

Manuscripts should be prepared following guidelines at: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html> and must be submitted online following the IEEE Transactions on Consumer Electronics instructions: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html>. During submission, the Special Section on “Proactive Threat Hunting and Anomaly Detection in Consumer Electronics for Next-Generation Intelligent Systems” should be selected.