

IEEE Transactions on Consumer Electronics

Call for Papers

Special Section on

Distributed and Resilient Machine Learning towards Trustworthy Sustainable Next-G Consumer Electronics

Theme:

The Next-Generation consumer electronics system may depend upon a trustworthy and energy efficient computing system. Green hardware and software are designed for better energy management and less e-waste generation for enhances consumer experience. Reliable and trustworthy distributed green applications can be built that not only meet organizations' requirements but also energy efficient. These green applications and software solutions can use Distributed and Resilient Machine Learning (DRML) approach to provide data integrity and security for the next gen consumer electronics sector. A DRML solution for trustworthy green consumer experience can withstand malicious attacks and breaches without hampering its integrity, availability, confidentiality, scalability and robustness.

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

- Prediction model for Next-G consumer electronics
- Trustworthy architecture for the Next-G consumer electronics
- Social engineering with the trustworthy next gen consumer electronics
- Surveillance on the vulnerabilities of Next-G consumer electronics
- Integration of IoT and Green Cloud Computing with DRML
- Designing of robust DRML-assisted Cloud Workflow Scheduling technique
- Future aspects of trustworthy next gen consumer electronics
- Application of Deep learning in energy optimization
- Privacy preservation policies in Next-G consumer electronics
- QoS maintenance in a Trustworthy next gen consumer electronics
- Influence of Green IoT in QoS delivery
- Resource allocation DRML-assisted wireless communication networks
- Quantum Cryptography for Next-G consumer electronics
- Distributed ledger technology for Next-G consumer electronics
- Cybersecurity for Pre and Post quantum computing era in Next-G consumer electronics
- Server-less computing for Next-G consumer electronics
- Confidential Computing for Next-G consumer electronics
- DRML and Human Machine teaming for Next-G consumer electronics

Important dates:

- End of submission of Manuscripts: August 30, 2023
- Expected publication date (tentative): April 2024

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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 “**Distributed and Resilient Machine Learning towards Trustworthy Sustainable Next-G Consumer Electronics**” should be selected.