# IEEE Transactions on Consumer Electronics

## Call for Papers

### Special Section on "Open Environment Data Mining in 6G Consumer Internet of Things"

**Theme:**

The 6G wireless networks target various innovative technologies and interfaces which will also enhanced the consumer electronics devices design to efficiently address various practical constraints in terms of power, computational capacity and storage capacity limitations. Consumer Internet of Things (CIoT) refers to the integration of IoT technology into consumer electronics devices and applications. The 6G will seamlessly integrate technologies like artificial intelligence, big data, and advanced computing. This convergence will advance efficient and intelligent interconnection for CIoT.

The realization of intelligent CIoT benefits require data mining and pattern recognition of scene, target and relationship by analyzing the sensing data of various consumer electronics devices. Obviously, the actual sensing environment of customer electronics devices is open, which makes the dynamic drift of CIoT sampling data characteristics, unknown scenes and targets constantly emerge. In general, open environment data mining in 6G CIoT should pay more attention on the generalization, robustness and dynamic evolution of the algorithms to realize the autonomous intelligent mining methods adapted to the open environment.

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

- Concept drift detection for open environment data mining in 6G CIoT
- New Class emerging for open environment data mining in 6G CIoT
- Incremental Learning for open environment data mining in 6G CIoT
- Continuous Learning for open environment data mining in 6G CIoT
- Reinforcement Learning for open environment data mining in 6G CIoT
- Few shot learning and Zero shot learning for open environment data mining in 6G CIoT
- Decremental Features detection for open environment data mining in 6G CIoT
- Incremental Features detection for open environment data mining in 6G CIoT
- Objectives varied learning for open environment data mining in 6G CIoT

**Important dates:**

- End of submission of Manuscripts: July 31, 2024
- Expected publication date (tentative): 2nd Quarter, 2025

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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 "**Open Environment Data Mining in 6G Consumer Internet of Things**" should be selected.


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