



## *[Online Learning for Edge Intelligence]*

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### Description:

Edge Intelligence is a synergy that seems imperative to conclude the convergence of Edge Computing and IoT to support intelligent applications very close to end users. IoT has pervaded our daily life by making things interconnected through the Internet, smarter, distributed and more autonomous. The emerging development of intelligent applications in IoT has now started to gain significant attention. Cloud provides many benefits, including storage, processing, and analysis of large-scale data and thus making IoT robust, smart, and autonomous. However, cloud technologies face some accessibility challenges when providing services to end users. For instance, mobile clients can move among different places yet require services with minimum cost and short response time. The unstable connection between cloud and mobile devices is expected to prevent providers from achieving optimal performance. To cope with these limitations, we aspire that Edge AI converges with IoT environments and materialises the desired intelligence in real computing systems. The Intelligent IoT is envisioned to involve numerous autonomous & distributed computing and AI-driven entities capable of understanding different contexts and taking timely optimised actions to serve modern applications efficiently.

### Topics of Interest:

This workshop focuses on hosting novel solutions towards the convergence of Edge Computing, AI and IoT, bringing together scientists & scholars. This year we give priority to work related to online learning for edge intelligence. The topics of the EdgeAI-IoT Workshop are concentrated on, but not limited to:

- Theoretical Models for Edge AI and Intelligent IoT
- Edge AI Infrastructure Modelling & Applications
- Distributed AI for Edge & Autonomous IoT
- Reinforcement Learning at the Edge
- Contextual Multi-Armed Bandits (MAB) for Edge AI
- Pure-Exploration & MAB with switching costs for Edge AI

### Paper Submission:

All papers must be submitted through eWorks. You must choose the workshop track (Work-02) when submitting your paper in order to be considered for this workshop. The paper should be up to six (6) pages in length. The conference allows up to two additional pages for a maximum length of eight (8) pages upon payment of extra page fees once the paper has been accepted.

### Important dates:

Paper submission: Jul 30, 2023

Notification of acceptance: Aug 21, 2023

Camera-ready submission: Sep 29, 2023

Presentation submission: Oct 2, 2023

The paper can be prepared using the template available through the Authors / Proposers tab from the WF-IoT conference website main page at:

<https://wfiot2023.iot.ieee.org>.

An alternative is to use the IEEE Word or Latex tools that can be found through:

<https://conferences.ieeeauthorcenter.ieee.org/write-your-paper/authoring-tools-and-templates/>.

Authors of accepted papers will need to provide a final version of the paper in PDF format and upload it by the camera-ready deadline and complete the assignment of copyright and release form. For your paper to be included in the proceedings and published in IEEE Xplore, at least one author is required to register for WF-IoT 2023 by the deadline.

### More information on the workshop:

<https://wfiot2023.iot.ieee.org/2nd-workshop-converge-edge-intelligence-iot-edgeai-iot-2023>