

# The 10th IEEE World Forum on the Internet of Things (IoT)

10–13 November 2024 // Ottawa, Canada

An In Person Event

Unleashing the Power of IoT with AI



## CALL FOR WORKSHOP PAPERS

### Important Dates

**20 July 2024**

Workshop Paper Submission

**25 August 2024**

Paper Decision Notification

**10 September 2024**

Camera-ready Submission

### Workshop Organizers

**Pai Chet Ng**

Singapore Institute of Technology

**Fani Deligianni**

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**Kostas N. Plataniotis**

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### TPC Members

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## The 1<sup>st</sup> workshop on Multimodal Human Behaviour Analysis with Federated Learning

The Workshop explores multimodal human behaviour analysis for smart healthcare applications by leveraging rich sensing modalities available on consumer IoT devices. Focusing on privacy-preserving approaches tailored for resource-constrained IoT devices, we are looking for efficient distributed learning methods, including federated learning, split learning, etc., to ensure the confidentiality of sensitive data. Participants are invited to contribute to the field of human behavior analysis in smart healthcare.

### The topics of interest include but are not limited to the following:

- Privacy preserving approaches for multimodal human behaviour analysis.
- Distributed learning, such as Federated learning, split learning, etc., for human behaviour analysis.
- Human behaviour analysis with multiple sensing modalities, such as human activity recognition, stress detection, etc.
- Smart healthcare applications based on human behaviour analysis, such as remote PPG, fall detection, etc.
- Model compression on resource-constrained IoT devices for efficient human behaviour analysis on device.
- Personalized FL models for human behaviour analysis.

### Submission Guidelines:

Authors are invited to submit 5-page papers in standard IEEE double-column format. Up to 4 pages may contain technical content, figures, and references, while the 5th page may contain only references. Papers will be peer-reviewed, and accepted papers will be included in the IEEE WF-IoT 2024 proceedings.

