# **Special Issue**

# Human-Centred Intelligent Wearable Devices

## Message from the Guest Editors

The development of wearable devices is accelerating through advances in micro/nanofabrication, flexible/stretchable materials, multimodal integration, and foreground algorithms. This Special Issue of *Micromachines* solicits original research articles. system papers, and perspectives on the design, fabrication, modeling, and characterization of wearable devices, textile-embedded sensors, and haptic interfaces, spanning MEMS/NEMS transducers and actuators (vibrotactile, electrotactile/electrostatic, microfluidic/pneumatic, thermoelectric, and olfactory). We particularly welcome end-to-end contributions that bridge wearable devices with human-in-the-loop validation, emphasizing intelligence, contextawareness, human-computer interaction, and realworld deployment. Submissions should report clear performance metrics, provide device- and system-level comparisons or user testing, and discuss trade-offs among performance, functionality, wearability, and usability. By synthesizing contributions across engineering and design, this Special Issue aims to accelerate translation from benchtop prototypes to robust, human-centric wearable systems with measurable real-world impact.

#### **Guest Editors**

Dr. Shaoyu Cai Dr. Yushan Pan

Dr. Yuki Ban

#### Deadline for manuscript submissions

30 April 2026



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# Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

#### Editor-in-Chief

Prof. Dr. Ai-Qun Liu

Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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