



Call for Papers

IEEE PICom 2023
The 21st IEEE International Conference on
Pervasive Intelligence and Computing (PICom 2023)
Nov 13-17, 2023, Abu Dhabi, UAE

Sponsored by IEEE, IEEE Computer Society
<https://icnetlab.org/cyber-science2023/picom/index.html>

Over the last fifty years, computational intelligence has evolved from artificial intelligence, nature-inspired computing, and social-oriented technology to cyber-physical integrated ubiquitous intelligence towards Pervasive Intelligence (PI). The IEEE International Conference on Pervasive Intelligence and Computing is intended to cover all kinds of these intelligent paradigms as well as their applications in various pervasive computing domains. PICom-2023 is the conference on Pervasive Intelligence and Computing. It aims to bring together computer scientists and engineers, to discuss and exchange experimental and theoretical results, work-in-progress, novel designs, and test-environments or testbeds in the important areas of Pervasive Intelligence and Computing. PICom 2023 invites original papers addressing all aspects related to Pervasive Intelligence and Computing. Topics of interest include but are not limited to the following:

- Deep Learning and Deep Computation
- Big Data and Smart Data
- Brain-inspired Computing
- Crowdsourcing and Social Computing
- Collective Intelligence
- Agent-based Computing

- Ubiquitous Intelligence
- Cyber-Physical Computing
- The Internet of Things
- Edge Intelligence
- Embedded HW, SW and Systems
- Pervasive Devices and RFIDs
- Wearable Devices and Applications
- Sensor Technology and Networks
- Pervasive Networks/Communications
- Edge and Fog Computing
- Device Virtualization
- Privacy, Security and Trust
- Context-Aware Computing
- Mobile Data Mining
- Ubiquitous Data Mining
- Activity Recognition
- Intelligent Cloud Computing
- Services for Pervasive Computing
- Smart Cities and Smart Homes
- Intelligent Social Networking
- Pervasive Technologies for ITS
- HCI for Pervasive Computing
- Middleware for Pervasive Computing
- Intelligent/Smart IoT
- Programming Abstractions for IoT

The 2023 edition of IEEE PICom will be organized in research tracks. Therefore, papers should be submitted to a single track, the one that better fits their subject, from the following:

Track 1: Computational Intelligence

Track 2: Intelligent Networks, Middleware and Applications

Track 3: Pervasive Computing and Activity/Affect Recognition

Track 4: Smart Object, Environment, System and City

Track 5: Edge Intelligence

In addition to the Technical sessions, we will have a workshop and a special session on highly relevant and timely topics. Calls for papers for the workshop and technical session are on their respective websites:

Special Session on Distributed Machine Learning for Edge/Fog Computing:
Challenges and Future Directions - <https://asuna-as.github.io/conferenceWebsite/>

Workshop on AI and Big Data for Next-G Internet of Medical Things 2023:
<https://sites.google.com/view/ai-iomt-2023/home>

=====IMPORTANT DATES=====

Main Conference Papers

Paper Submission Due: ~~1 July, 2023~~ ~~1 August, 2023~~ **21 August, 2023**

Authors Notification: 15 September, 2023
Camera-ready Submission: 30 September, 2023

=====SUBMISSION INSTRUCTIONS=====

Authors are invited to submit their original research work that has not previously been submitted or published in any other venue. Regular, work-in-progress (WiP), workshop/special session, and poster papers need to be submitted via Easychair <https://easychair.org/conferences/?conf=dascpicomcbdcomcyber0>

Please select the respective track/WS/SS when submitting the paper.

Papers should be prepared in IEEE CS Proceedings format. IEEE formatting information:
http://www.ieee.org/conferences_events/conferences/publishing/templates.html

All accepted papers in the main tracks, workshops, special sessions and demos/posters will be published in an IEEE Computer Society proceedings (IEEE-DL and EI indexed). Best Paper Awards will be presented to high quality papers.

Some papers originally submitted as full papers can be accepted as short papers or posters during the review process. In such cases, the authors will need to reduce the paper accordingly when preparing the camera-ready version.

At least one of the authors of any accepted paper is requested to register and present the paper at the conference. If it is not possible for any of the authors to present the paper in person, online presentation or video recording will be allowed.

Regular Papers: 6-8 pages
WiP/Workshop/Special Session Papers: 4-6 pages
Posters: 2-4 pages

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