

The 22nd IEEE International Conference on Pervasive **Intelligence and Computing (PICom 2024)**

http://cyber-science.org/2024/picom/

joint conference IEEE CyberSciTech/PICom/DASC/CBDCom 2024 5-8 November 2024 - Boracay Island, Malay, Philippines

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together computer scientists and engineers, providing a platform for vibrant discussions and exchanges on experimental and theoretical results, ongoing work, cutting-edge designs, and innovative test-environments or testbeds, while also delving into the latest advancements and novel trends in Intelligence and Machine Learning within the realms of Pervasive Intelligence and Computing.

Tracks and Topics

Track 1: Next Gen Pervasive Al

- GenAl for wireless sensing
- Machine-to-machine GenAl
- Generative IoT
- GenAl for semantic communications
- Multi-agent network powered by
- Big Data and Smart Data
- **Brain-inspired Computing**
- Mobile Data Mining
- Ubiquitous Data Mining

Track 2: Intelligent Networks, Middleware and Applications

- Pervasive Networks/Communications
- 5G networks and Technologies
- AI/ML for smart wireless networks
- Al and machine learning-based applications for ad hoc networks
- Cooperative and cognitive communication
- Middleware for the IoT
- Adaptive Middleware for Pervasive Systems
- Context-aware applications
- Intelligent/Smart IoT
- Programming Abstractions for IoT

Track 3: Pervasive Computing and Activity/Affect Recognition

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 2024 is the

conference on Pervasive Intelligence and Computing, previously held as PCC (Las Vegas, USA, 2003 and 2004), PSC (Las Vegas, USA, 2005), PCAC (Vienna, Austria, 2006, and Niagara Falls, Canada, 2007), IPC-2007 (Jeju, Korea,

December 2007), IPC-2008 (Sydney, Australia, December 2008), and since 2009 as the name PICom. It aims to bring

- Crowdsourcing and Social Computing
- Collective Intelligence
- Agent-based Computing
- Pervasive Devices and RFIDs
- Wearable Devices and Applications
- Activity Recognition
- Intelligent Social Networking
- Pervasive Technologies for ITS
- **HCI** for Pervasive Computing

Track 4: Next Gen Smart Environments Track 6: Work-in-Progress Smart grid, healthcare, transportation

- applications
- Wearable and human-centric devices and networks
- **Device Virtualization**
- Intelligent Cloud Computing
- Services for Pervasive Computing
- **Smart Cities and Smart Homes**
- Privacy, Security and Trust in Smart Environments
- Autonomous Pervasive Systems
- Autonomous IoT
- **Digital Twins**

Track 5: Edge Intelligence Applications

- ML for resource allocation at the Edge
- NFV-Edge
- 5G-Edge
- Edge-assisted IoT
- Integration of Edge Computing and Blockchain
- **Edge-Cloud Continuum**
- Edge Al

(WiP) and Late Breaking Innovation (LBI)

The track covers all the topics but it is aimed at either papers that have an original but not fully validated proposal (WiP) or present a breakthrough, a new vision or an out of the box idea on the field to be discussed at the conference (LBI).

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), and workshop/special session papers need to be submitted in IEEE CS Proceedings format. IEEE formatting info:

http://www.ieee.org/conferences events/conferences/publishing/templates.html

All the accepted papers will be published by IEEE in the Conference Proceedings (IEEE-DL and EI indexed). Best Paper Awards will be presented to high quality papers. Selected papers will be recommended to prestigious journal Special Issues.

Some papers originally submitted as full papers can be accepted as short papers 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. Full Papers: 6-8 pages - WiP/LBI/WS/SS/Short Papers: 4-6 pages

Important Dates

Workshop/SS Proposal Due 15 Apr 2024 Paper Submission: 15 Jun 2024 WiP/WS/SS Paper Subm. 15 Jul 2024 Acceptance Notification: 15 Aug 2024 Camera-ready Submission: 15 Sep 2024

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