

IEEE International Conference on Pervasive Computing and Communications
Walter E. Washington Convention Center
Washington D.C., USA
March 17-21, 2025

PERCOM *Computing*
Pervasive 2025

PerCom 2025 – Initial Call for Papers

IEEE PerCom, now in its 23rd year, will be held in Walter E Washington Convention Center, Washington D.C., USA, March 17 - 21, 2025 as a physical event. PerCom is the premier annual scholarly venue in pervasive computing and communications. PerCom is constantly at the forefront of mobile and ubiquitous systems research and has found its way into many commercial applications due to tremendous advances in a broad spectrum of technologies and topics such as wireless networking, mobile and distributed computing, sensor systems, ambient intelligence, edge computing, and smart devices.

Scope

PerCom 2025 solicits research contributions in all areas pertinent to pervasive computing and communications. In particular, PerCom targets contributions in:

- **Advances in pervasive systems and infrastructures:** middleware systems and services; data engineering for pervasive computing; cloud, fog and edge computing; integrations of smartphones and wearables in pervasive experiences; applications of device-to-device coordination.
- **Theories, models, and algorithms:** context modeling & reasoning; adaptive computing; activity & emotion recognition; programming paradigms; applied deep/federated/decentralized machine learning; causal learning; cognitive computing; resource-efficient AI; complex networks; spatio-temporal modeling.
- **Domain-specific challenges and novel applications:** urban/mobile crowdsensing & intelligence; PerCom for healthcare and well-being; cyber-physical PerCom; smart homes and virtual assistants; mixed reality; sports analytics; crime prevention; pervasive nowcasting; assistive and collaborative robotics; pervasive AR/VR; smart vehicles; disaster sensing and management; interactive agents; education and reskilling.
- **Intersections of PerCom with:** IoT and sensor systems; RFID; opportunistic networks; pervasive data science; human-machine interaction and interfaces, cyber-physical systems; 3D networks, embedded and edge AI.
- **New techniques for user-level concerns:** participatory and social sensing; trust, security, privacy, fairness, and ethics; user interface, interaction, and persuasion; online and offline social networking; human-machine collaboration.
- **Technological innovations:** architectures, protocols, and technologies for pervasive communications; energy-harvesting, self-powered, or battery-less systems; mobile and wearable systems; smart devices, natural multimodal

Organizing Committee

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Jamie Payton,
Temple University, USA
Nirmalya Roy, University of
Maryland Baltimore County, USA

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Local Chair

Sreenivasan Ramasamy
Ramamurthy, Bowie State
University, USA
Anuradha Ravi, University of
Maryland Baltimore County, USA

Workshops and Events

PerCom has a long history of **workshops** on focused topics. A **PhD Forum**, **Work In Progress** Posters, live **Demos** and an **n2women** event are also planned.

Submission & Information

Paper submission: end-September
2024 percom.org
ieeepercom@gmail.com

interfaces and environments; positioning, navigation, timing, and tracking technologies; and device-free human and environmental sensing.

Contributions can be analytical, empirical, technological, methodological, or a combination. Papers reporting strong systems engineering contributions backed by solid and appropriate evaluations are strongly encouraged. **The impact of the contributions should be demonstrated in the context of pervasive computing and communications applications.**

Note: accepted papers must be presented in person by one of the authors, in addition to having an associated full registration. Failure to comply with this requirement will result in the exclusion of such papers from the best paper award, the conference program, final proceedings, and from the IEEE Digital Library.

IMPORTANT DATES (Indicative and Preliminary)

Paper registration in **EasyChair**: Sunday Sep 22, 2024 11.59 pm AOE

Paper submission in **EasyChair**: Friday Sep 27, 2024 11.59pm AOE

Notification: Friday, Dec 20, 2024

Camera Ready: early-Feb 2025