PerCom 2024 – Call for Papers

IEEE PerCom, now in its 22nd year, will be held in **Biarritz, France in March 2024** as a <u>physical event</u>.

PerCom is the premier annual scholarly venue in pervasive computing and communications. Pervasive computing is constantly at the forefront of mobile 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, and smart devices.

Scope

PerCom 2024 solicits research contributions in all areas pertinent to pervasive computing and communications, , especially those that cross traditional research boundaries. 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 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; 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; urban robotics; pervasive AR/VR; smart vehicles; disaster sensing and management.
- **Intersections of PerCom with:** IoT and sensor systems; RFID; opportunistic networks; pervasive data science; cyber-physical systems; 3D networks; green networking.
- **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 and environments; positioning, navigation, timing, and tracking technologies; and device-free human sensing.

Contributions can be analytical, empirical, technological, methodological, or a combination thereof. Papers reporting strong systems engineering contributions backed by solid and appropriate evaluations are strongly encouraged.

Contributions should be *novel* (those presenting only minor improvements over the state of the art will not be considered), should demonstrate a *significant impact* (i.e., they should address an outstanding problem), and should be *rigorous*.

Note that the impact of the contributions should be demonstrated in the context of pervasive computing and communications applications.

Read before submitting

PerCom would not be PerCom without its community. For this reason, we are looking for ways to strengthen the community and encourage meaningful interactions.

To this end, all accepted papers **must be presented <u>in person</u> 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 the paper from the final proceedings and from the IEEE Digital Library, and the paper will not be eligible for the Best Paper Award.

We strongly advise authors of submitted papers to be prepared to apply for their visa (if required for entry into France) as soon as their paper is accepted.

Important dates

Paper registration in EDAS: September 25, 2023

Submission via EDAS: October 2, 2023

Notification: December 21, 2023

Camera Ready: February 2, 2024

Best Paper Award and Editorial Follow-Ups

The best paper will receive the prestigious Mark Weiser Best Paper Award.

Selected papers will be invited to submit extended versions for a **special issue of the [Pervasive and Mobile Computing Journal](#)**.

Submission details

Paper submission must be done for the main conference and all associated events via [EDAS](#). If you do not have an EDAS account, please, register first (it's free) via the following link: [register](#). The direct submission link for PerCom 2024 is [here](#).

PerCom 2024 will follow a **double-blind review process**. As a result, authors must make a good-faith effort to anonymize their submissions. In particular, as in previous PerCom editions, publishing pre-prints of your submitted papers in online archives (e.g., arXiv) prior to submission does NOT disqualify the paper from consideration at PerCom. Moreover, we instruct reviewers NOT to go searching for pre-prints of submitted papers.

Submitted papers must be unpublished and not considered elsewhere for publication. Also, they must show a significant relevance to pervasive computing and communications. Submitted papers will undergo a rigorous review process handled by the Technical Program Committee. Only electronic submissions in PDF format will be considered.

The IEEE LaTeX and Microsoft Word templates, as well as formatting instructions, can be found [here](#). Papers must be at most **9 pages of technical content** (10pt font, 2-column format), including text, figures, and tables, and up to **1 additional page for references** only.

Accepted papers will be published in IEEE Xplore. All accepted papers will be invited to submit an artifact abstract providing the code, data, results, etc. associated with the contribution.

TPC Chair and Vice-Chairs

Chiara Boldrini, IIT-CNR, Italy

Sara Khalifa, CSIRO, Australia

Nirmalya Roy, University of Maryland Baltimore County, USA

Stephan Sigg, Aalto University, Finland

To contact us, please write to percom2024-tpc-chairs@iit.cnr.it

Diversity, Equity and Inclusion

PerCom values particularly Diversity&Inclusion aspects. Check [here](#) for specific information.