



Call for paper

The rapid urbanization and increasing complexity of city infrastructures necessitate innovative solutions to manage resources efficiently, ensure sustainability, and enhance the quality of life for citizens. Edge Artificial Intelligence (AI) emerges as a transformative technology that brings computational power closer to data sources, enabling real-time analytics and decision-making. The integration of Edge AI in smart cities is poised to revolutionize urban management by optimizing various aspects such as transportation, energy management, public safety, and environmental monitoring. This workshop focuses on exploring the advancements, challenges, and future directions of Edge AI, aiming to address the challenges and opportunities that arise when these technologies converge to support smart city applications.

The workshop on Edge Artificial Intelligence for Smart Cities (IEEE EAI4SC2024) aims to bring together researchers, practitioners, and industry experts to delve into the current advancements, challenges, and future directions of Edge AI in smart cities. The focus will be on how Edge AI can be effectively implemented to address urban challenges, improve operational efficiency, and provide actionable insights. Covering a broad range of topics, the workshop will ensure a comprehensive understanding of the field, from theoretical foundations to practical applications.

This workshop is a part of the 12th IEEE International Conference on Smart City and Informatization ([iSCI-2024](#))

Workshop CFP URL: <https://www.leylink.com/lab/cfp/EAI4SC2024>

Keynote Speakers

- **Arumugam Nallanathan (FIEEE, FIET, FAAIA)**, Queen Mary University of London, UK.
- **Xiaofei Wang**, Tianjin University, China.

Topics of interest include, but are not limited to:

- TinyML techniques for implementing AI on edge devices.
- Privacy-preserving techniques and data security for Edge AI.
- Energy-efficient AI algorithms and hardware for edge devices.
- Resource management strategies for Edge AI systems.
- Distributed and federated learning approaches for edge environments.
- Innovations in edge hardware platforms supporting AI workloads.
- Applications of large language models and generative AI at the edge.
- The combined application of Edge AI, blockchain, and digital twin technologies.
- Case studies of Edge AI applications in smart cities.
- Edge computing architectures supporting AI applications for smart cities.
- Standardization and interoperability frameworks for Edge AI systems for smart cities.

Important Dates

- Paper submission deadline: before **September 15th, 2024**
- Author notification: **October 15th, 2024**
- Final manuscript due: **November 10th, 2024**

Submission Instructions

Papers submitted to **IEEE EAI4SC2024** should be written in English conforming to the [IEEE Conference Proceedings Format](#) (8.5" x 11", Two-Column). The length of the papers should not exceed 6 pages + 2 pages for over length charges.

Papers containing text generated by large-scale language models (LLMs) like ChatGPT are prohibited. This policy specifically forbids any content entirely produced by LLMs. However, authors are permitted to use LLMs for editing or polishing author-written text. The LLM policy is primarily grounded in a conservative approach to mitigating potential risks associated with LLM usage, including concerns about plagiarism.

Accepted and presented papers will be included into the IEEE Conference Proceedings published by IEEE CS CPS and submitted to IEEE Xplore and CSDL. Authors of accepted papers, or at least one of them, are requested to register and present their work at the conference, otherwise their papers will be removed from the digital libraries of IEEE CS after the conference. Distinguished papers presented at the conference, after further revision, will be recommended to special issues of reputable SCI/EIindexed journals.

Submitting a paper to the workshop means that, if the paper is accepted, at least one author should attend the Symposium and present the paper.

The paper should be submitted through the EDAS paper submission system: <https://edas.info/N32866>.

Program Co-Chairs

- Yansha Deng, King's College London, UK
- Yongmin Zhang, Central South University, China
- Lei Mu, Southwest Minzu University, China
- Penglin Dai, Southwest Jiaotong University, China

Contact

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