Edge Intelligence for 6G Networks

Workshop Organizers	Call for Papers
General Chairs	The six generation (6G) networks are expected to accommodate a huge number of mobile devices, and provision low latency and context-aware intelligent applications to mobile users in a flexible and efficient manner. To support intelligent applications, such as autonomous driving, smart city surveillance, and VR/AR, cloud services are expected to be pushed to the proximity of mobile devices for service quality assurance. For instance, to facilitate safe autonomous driving, the service delay of most vehicular applications is required to be within milliseconds. Edge intelligence aims to process data/computing intensive tasks at the network edge, where a set of mobile devices can work cooperatively for data collection and processing, task offloading, model training/inference, data analytics via edge caching and training, etc. However, edge intelligence systems have to deal with potential challenges. The systems should support various intelligent applications with distinct QoS requirements in terms of latency, reliability, and accuracy. In addition, the service demands exhibit spatial and temporary dynamics due to traffic burstiness and user mobility. It is of importance to manage the communication, computing, and memory/storage resources which jointly affect the perceived user performance. The objective of this workshop is to promote the edge intelligence for 6G networks by dealing with the challenges. This workshop can serve as a forum for researchers from academia, government, and industries, to exchange ideas, present new results, and provide visions on these topics.
Qiang Ye, Memorial University, Canada	
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Jun Cai, Concordia University, Canada	
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Peng Yang, HUST, China	
Qihao Li, Jilin University, China	
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Jie Gao, Carleton University, Canada	
Kaiyang Liu, University of Victoria, Canada	
Ebrahim Mohamed, Univ. of Saskatchewan, Canada	
Mushu Li, University of Waterloo, Canada	
Muhammad Ismail, Tennessee Tech Univ., USA	
Weisen Shi, Huawei Technologies, Canada	
He Fang, Soochow University, China	
Nan Chen, Tennessee Tech University, USA	
Dongxiao Liu, University of Waterloo, Canada	
Yujie Tang, Dalhousie University, Canada	
Yao Sun, University of Glasgow, UK	
Nan Cheng, Xidian University, China	
Kaige Qu, University of Waterloo, Canada	
Yuan Zhang, UESTC, China	
Cheng Huang, University of Waterloo, Canada	
Important Dates	
• **Paper submission deadline: Jun. 25, 2023**	
• Acceptance notification: Jul. 15, 2023	
• Final paper submission due: Jul. 24, 2023	
• Workshop date (tentative): Aug. 10, 2023	

- Performance analysis of edge intelligence systems
- Joint optimization of heterogeneous resources
- Digital twin-assisted edge intelligence
- Edge intelligence for industrial IoT
- SDN/NFV-assisted edge intelligence
- Network slicing for edge intelligence
- Task offloading for intelligent applications
- End-edge-cloud interplay
- Green edge intelligence systems
- Architecture for edge intelligence systems
- Protocols for edge intelligence systems
- Security and privacy in edge intelligence systems
- Distributed learning in edge intelligence systems
- Data analytics assisted edge intelligence systems