



Call for Papers

IEEE International Workshop on Artificial Intelligence (AI) enhanced Green Communication for Smart Cities

to be held in conjunction with the 2023 IEEE 48th Annual Local Computer Networks (IEEE LCN), October 02-05, Daytona Beach, Florida, USA.

<https://www.ieeelcn.org/index.html> [Workshop website to be updated]

Workshop Chairs

Mohammad S. Khan

East Tennessee State University, USA
khanms@etsu.edu

Amir H. Gandomi

University of Technology Sydney
Australia
gandomi@uts.edu.au

Sherali Zeadally

University of Kentucky, USA
szeadally@uky.edu

Albena D. Mihovska

Aarhus University, Denmark
amihovska@btech.au.dk

Publicity Co-Chair

Khan Muhammad

Sungkyunkwan University, South Korea

Technical Program Committee

Celimuge Wu,

University of Electro-Communications, Japan

Bhargav Appasani,

IIT Bhubaneswar, India

Zhi Liu,

University of Electro-Communications, Japan

Rui Yin,

Zhejiang University, China

Sushanta Mohapatra,

IIT Bhubaneswar, India

Biju Bajracharya,

East Tennessee State University, USA

Rizwan Patan,

Kennesaw State University, USA

Anurudh Paranjothi,

Oklahoma State University, USA

Pelusi Danilo,

University of Teramo, Italy

Computational intelligence is everywhere in the modern world fostered by connected smart devices and computers with accelerated processors and GPUs to perform advanced machine intelligence tasks. Green communications and networking technologies, like LoRa, 5G/6G, and NB-IoT, make it easier to collect data energy-efficiently and develop novel applications at a low-cost. Machine intelligence and green communications bring artificial intelligence (AI) to smart cities among other domains, to enable better management of network resources, optimize operations and efficiency, and provide a more sustainable environment and user-centric services. Built on the advancing wireless infrastructures, the key question is how to make use of artificial intelligence in green communications and networking to better support smart cities.

This workshop aims to bring researchers from industry and academia working to the following area but are not limited to:

- Novel smart city applications with AI enhanced green communication and eXtended Reality (XR).
- New architecture and protocols design of AI integrated green communication for smart cities.
- AI enhanced green communication for security and trust in smart cities.
- AI enhanced green communication for control schemes in smart cities.
- AI enhanced green communication for smart data storage in smart cities.
- AI enhanced green communication for LPWAN for smart cities.
- AI enhanced green communication for device management for smart cities.
- Federated learning and green communications for smart cities
- AI enhanced green communication for smart grid in smart cities.
- AI enhanced green communication for Intelligent Transport System (ITS).
- AI enhanced green communication for sustainable environment.
- AI enhanced green communication for connected health in smart cities.
- AI enhanced green communication for hard/software platforms in smart cities.

Keynote Speakers

Dr. Houbing H. Song (IEEE Fellow)

Professor, University of Maryland, Baltimore County, Maryland, USA.

Dr. Ahmed Abdelgawad

Professor, Central Michigan University, Michigan, USA.

May 31, 2023

June 30, 2023

July 20, 2023

Important Dates

Submission of Papers

Notification of Acceptance

Camera-ready copies of accepted papers