The 19th IEEE Conference on Green Computing and Communication (GreenCom-2023)

Dec. 17 - 21, 2023, Ocean Flower Island, Hainan, China

IMPORTANT DATES

Workshop Proposal Due: July. 15th, 2023
Paper Submission: Sep. 1st, 2023
Authors Notification: Oct. 1st, 2023
Camera-Ready Submission: Oct. 31st, 2023

Organizing Committee

Honorary Chairs

Minyi Guo, *Shanghai Jiao Tong Univ.*, China **General Chairs**

Xiaorui Wang, *The Ohio State University, USA* Anshul Gandhi, *Stonybrook Univeristy*, USA Jidong Zhai, Tsinghua Univ. China

Program Chairs

Marco Brocanelli, *Wayne State Univ.*, USA Chao Li, *Shanghai Jiao Tong Univ..*, China Zichen Xu, *Nanchang University.*, China

Program Vice-Chairs

Xiaofeng Hou, *HKUST*, China Fanjing (Meg) Meng, *IBM*, China Naveed Arshad, *LUMS*, Pakistan

Award Chairs

Chenren Xu, *Peking University*, China Yu Jiang, *Tsinghua University*, China Quan Chen, *Shanghai Jiao Tong Univ.*, China

Track Chairs

Li Li, *University of Macau*, China Wenli Zheng, *Shanghai Jiao Tong Univ.*, China Kuangyu Zheng, *Beihang Univ.* China

Publicity Chairs

Xiaolong Zheng, *BUPT*, China Torsten Hoefler, *ETH Zurich*, Switzerland Daniela Loreti, *University of Bologna*, Italy

Poster Chair

Chuanwen Luo, Beijing Forestry University, China

Web Chairs

Yan Fu, Nanchang University, China

Steering Committee

Laurence T. Yang, *St Francis Xavier Univ.*, Canada Jianhua Ma, *Hosei University*, Japan

Advisory Committee

Fangming Liu, HUST, China

Ning Liu, Shanghai Jiao Tong University, China

IEEE GreenCom-2023 Call for Papers

Computer systems, communication systems, and other IT infrastructures have a growing environmental footprint due to the significant amounts of energy consumption and carbon emission. To address such problems and create a sustainable environment, new energy models, algorithms, methodologies, platforms, tools and systems are required to support next-generation computing and communication infrastructures. Thus, green computing and communications solutions should be designed to better integrate renewable energy sources, to improve energy efficiency, and to reduce greenhouse gas emissions and harmful materials.

The 19th IEEE GreenCom will be held in December 2023, Ocean Flower Island, Hainan, China. It will be an exciting international forum for scientists, engineers, and researchers to exchange their novel research regarding advancements in the state-of-art of green computing and communications, as well as to identify the emerging research topics and open issues for further researches.

IEEE GreenCom-2023 Tracks and Topics

Track 1: Green Computing and Communication Technologies

- Green infrastructure sustainable design and technologies
- Energy- and power-constrained devices and gateways
- Ultra-low power systems architectures
- Low-power, distributed data processing on sensors
- Energy-efficient M2M wired and wireless communications and networking
- Optimization and/or analysis in green computing and communications (including core network optimization)
- Green big data, cloud, and data center architecture
- Green technologies for 5G (SDN, IoT, and crowdsourcing, etc.)
- Energy harvesting communications and networks

Track 2: Smart Energy and Smart Grid

- Smart metering infrastructure and technologies
- Large-scale monitoring, control and demand response
- Advanced data fusion, mining, and modeling in smart grid
- Management and control of distributed energy generation, storage, and consumption
- Advanced smart grid applications: grid-to-vehicle and vehicle-to-grid, Micro-grid

Track 3: Green Society Applications

- Smart sensing systems
- Smart city
- Green vehicle, green home, green buildings, and green anything
- Green industrial automation and control
- Intelligent Transport Systems and control
- Energy efficiency in aerial/UAV communication networks
- Green social networks
- Applications of blockchain in energy management and trading

Poster SESSIONS

We invite proposals for novel ideas and prelimited research associated with the conference, addressing research areas related to the conference. Accepted posters will be included in the IEEE proceeding.

PAPER SUBMISSION

Main conference papers are limited to 8 pages (regular paper), or 6 pages (short paper), and 2-4 pages for a poster paper following the IEEE proceedings format, and are to be submitted as PDF.

PAPER PUBLICATION

Accepted conference papers will be published by IEEE (IEEE-DL and EI indexed). At least one author of each accepted paper is required to register and present their work at the conference; otherwise the paper will not be included in the proceedings. Selected papers, after further extensions and revisions, will be recommended to special issues.

Sponsored and Supported by







