



Communications Technologies 4Good

Call for Papers

4th Int. Workshop on Green and Sustainable Networking (GreenNet 2025)

Energy efficiency and sustainability have become of paramount importance in all human activities, including the information and communication technology sector. The trade-off between availability, resiliency, programmability, and energy efficiency of networks and services is a key challenge for the next decade and monitoring methods and metrics for power consumption, energy efficiency, as well as sustainability are important, as well as benchmarking of solutions based on well-defined KPIs.

For that reason, the **goal of the GreenNet Workshop** is to address emerging concepts and challenges related to energy efficiency and sustainability for networked services. An improved sustainability in all parts of the network in a time of increasing AI/ML usage, evolution of different novel network access technologies, the spreading of edge computing and micro-data centers and the demand in computational and data transport capacity across the edge-cloud continuum is essential. **Furthermore, the goal is to not only consider an energy efficient and sustainable access network but complete network, monitoring, and management solutions from data generation to data processing and further usage.**

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TOPICS OF INTEREST

We seek original completed and unpublished work not currently under review. **Topics of interest include, but are not limited to:**

- Traffic modeling and prediction for performance and power representation
- Network and device management and control mechanisms
- Usage of digital twins to improve future networks energy consumption and efficiency
- Network measurements and simulations for sustainable and energy efficient future networks
- Benchmarking of energy efficiency and sustainability solutions
- Holistic views on networks, applications, or services from network access to data center
- Emerging networking concepts and technologies to improve energy consumption/efficiency
- AI/ML techniques in the context of energy consumption and efficiency
- Architectural solutions toward network sustainability
- Role of software in reducing network energy consumption and carbon footprint
- Coping with the end of Moore's law
- Role of standardization including network energy efficiency and sustainability metrics
- Consideration of carbon emissions or lifecycle of devices

PAPER SUBMISSION

All papers for Workshops should be submitted via EDAS.

Full instructions on how to submit papers are provided on the IEEE ICC 2025 website:

<https://icc2025.ieee-icc.org/>

Important Dates

Paper Submission Deadline

20 January 2025

Acceptance Notification

10 March 2025

Camera Ready

31 March 2025

Registration for Accepted Papers

31 March 2025

Workshop Date

08 or 12th June 2025

Organizing Committee

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Workshop Website

<https://sites.google.com/view/greennet2025>