



## Sustainable Communications for Renaissance

## Call for Papers

## 2nd Int. Workshop on Green and Sustainable Networking (GreenNet 2023)

**Energy efficiency and sustainability** have become of paramount importance in all human activities. Regarding ICT, it has been long recognized that its impact on helping reduce the carbon footprint of other activities can be significant; then, it would be odd if the same principle would not apply to ICT itself.

The goal of the **2nd Int. Workshop on Green and Sustainable Networking (GreenNet 2023)** is to address **emerging concepts and challenges** related to energy efficiency and sustainability for networked services, by pursuing sustainability in the context of ongoing developments such as 5G and beyond, 6G, usage of AI/ML or distributed ledger solutions and with different network access technologies.

To this aim, the Workshop will also address advanced traffic and power models, as well as management and control strategies, along with Application Programming Interfaces (APIs), to be used for the lifecycle management and optimization of Physical and Virtual Network Functions, the creation and dynamic reconfiguration of network slices, and the balance between sustainability in terms of energy efficiency and performance.

**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.**

The trade-off between availability, resiliency, programmability, and energy efficiency is a key challenge. 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.

## 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We seek original completed and unpublished work not currently under review.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
- Management and control mechanisms for the dynamic optimization of the trade-off between power, energy efficiency, sustainability and performance, availability, resilience
- Benchmarking of solutions w.r.t. energy efficiency and sustainability based on KPIs
- Sensor and industrial automation networks
- Evolutionary strategies for the achievement of 6G energy-efficiency KPIs and Quality of Information improvement
- AI/ML techniques for power and performance management in virtualized environments
- AI/ML for slicing energy efficiency, fog/cloud MEC virtualization, self-x technologies, adaptation, automation, and zero-touch
- Architectural solutions toward network sustainability
- Energy-efficiency and sustainability in all parts of networked services
- Multi-technology solutions
- Coping with the end of Moore's law
- Role of standardization including network energy efficiency and sustainability metrics

## PAPER SUBMISSION

All papers for Workshops should be submitted via EDAS.

Full instructions on how to submit papers are provided on the IEEE ICC 2023 website:

<https://icc2023.ieee-icc.org/>

## Important Dates

## Paper Submission Deadline

20 January 2023

## Acceptance Notification

06 March 2023

## Camera Ready

15 March 2023

Registration for Accepted  
Papers

15 March 2023

## Workshop Date

28 May or 01 June 2023

## Organizing Committee

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## Workshop Website

<https://sites.google.com/view/greennet2023/home>