2nd Int. Workshop on
Green and Sustainable Networking (GreenNet 2023)
Co-located with IEEE ICC
28. May - 01. June 2023
Rome, Italy
https://sites.google.com/view/greennet2023/home

Important Dates

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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: May 28 or June 01, 2023

Goals

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The goal of the GreenNet Workshop 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. This includes 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. We solicit original papers on the following (and related):

Topics of Interest

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- Management and control mechanisms for the dynamic optimization of the trade-off between power, energy efficiency, sustainability and performance, availability, resilience
- Traffic modeling and prediction for performance and power representation
- Benchmarking of solutions w.r.t. energy efficiency and sustainability based on KPIs

- Role of standardization including network energy efficiency and sustainability metrics
- 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
- Evolutionary strategies for the achievement of 6G energy-efficiency KPIs and Quality of Information improvement
- Architectural solutions toward network sustainability
- Energy-efficiency and sustainability in all parts of networked services
- Multi-technology solutions
- Sensor and industrial automation networks
- Coping with the end of Moore's law

Workshop Chairs

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