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Symposium chair:

Josip Lorincz  
FESB, University of Split,  
Croatia



The authors of selected papers presented at the SGNC 2023 symposium are invited to submit the extended versions of their papers to the Special Issue on "Energy-efficient communication networks and systems" of Sensors journal:

[www.mdpi.com/journal/sensors/special\\_issues/EECNs](http://www.mdpi.com/journal/sensors/special_issues/EECNs)

Submitted papers should be extended to have the length of regular research or review articles, and overall results should be extended by at least 70% (e.g. in the form of technical extensions, more in-depth evaluations, or additional use cases).



## THE 14<sup>th</sup> SYMPOSIUM ON GREEN NETWORKING AND COMPUTING (SGNC 2023) – September 21 - 23, 2023, Split, Croatia

### Call for Papers

The 14th Symposium on "Green Networking and Computing" (SGNC 2023) will be held in the frame of the 31st International Conference on Software, Telecommunications, and Computer Networks (SoftCOM2023). The Symposium is organized since 2010 in the frame of the SoftCOM conference and it will take place on September 21-23, 2023 in Split, Croatia. In the frame of the Symposium, the 14th "Special Session on green networking and computing", invited talks, tutorials and business forum will be organized. The members of the Croatian ACM chapter participate as attendees of the symposium and the SGNC 2023 symposium is organized in cooperation with the IEEE Technical Committee on Green Communications and Computing (TCGCC) and Croatian Communications and Information Society (CCIS).

The topic of "green networking and computing" is attracting growing attention for economic, energetic, and environmental reasons. The rapidly increasing amount of power consumed by ICT, as well as the energy bills of service providers, contributes to economic reasons. According to a number of studies, ICT alone is responsible for between 2 and 10% of world power consumption, due to the ever-increasing diffusion of electronic devices. Communication networks, including the Internet and wireless networks, represent a non-negligible part of the energy consumption of ICT. In addition, the carbon footprint of ICT devices due to energy consumption and the activities related to their entire lifecycle contributes to global warming. In the very last years, energy-saving techniques are being considered for communication networks with new-generation devices and network management approaches exploiting algorithms and protocols for adapting the network to the varying traffic load. The Symposium on "Green Networking and Computing" aims to serve as a platform for researchers and visionaries from academia, research labs, and industry from all over the world. Sharing ideas, views, results, and experiences in the field of green wired and wireless networking is what the "Green Networking and Computing" Symposium is intended to be about. Anything from theoretical and experimental achievements to innovative design and management approaches, prototyping efforts, and case studies is in Symposium focus.

Topics of interest include, but are not limited to the following:

- Implementation of artificial intelligence (AI) for improving the energy efficiency of communication networks and systems
- Power consumption models of networking infrastructure
- Power measurements and data from empirical studies of communication networks
- Techniques for reducing power consumption in data centers
- Hardware and architectural support for reducing power consumption
- Energy efficient network management and internet of things (IoT)
- Green network design and energy-efficient smart grids
- Applications of green networking technologies and principles
- Cross-layer optimizations for reducing energy consumption
- Optimization of energy consumption in optical networks
- Energy-efficient protocols and transmission techniques
- Energy-efficient fog and edge computing
- Energy-efficient peer-to-peer networking and overlays
- Energy-efficient cloud computing and network function virtualization
- Green wireless access networks
- Green wired access networks
- Green future Internet and software-defined networking
- Energy cost models for network operators
- Energy-efficient sensors and sensor networks
- Renewable energy sources for power supply of wired and wireless access networks
- Antenna design and transmission technologies for reducing energy consumption
- Green communication technologies for smart cities
- Energy-efficient vehicle and industrial communications
- Energy-efficient critical communications.
- Green mobile applications
- Green cognitive radio networks

Web link for paper submission in EDAS system (Symposium on Green Networking and Computing):

<https://edas.info/newPaper.php?c=30630&track=116250>

Accepted and presented papers will be published in the conference proceedings, IEEE Xplore, Scopus, as well as other Abstracting and Indexing (A&I) databases and submitted to possible inclusion in the Web of Science (WoS) database.

#### IMPORTANT DATES

Complete manuscript due: June 5, 2023  
Notification of acceptance: July 1, 2023  
Camera-ready manuscript: July 10, 2023

More information about the Conference including details on the submission process and authors kit is available on the website: <http://softcom2023.fesb.hr>

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