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Split, Croatia, September 19 – 21, 2019

The 10<sup>th</sup> SYMPOSIUM ON:

## GREEN NETWORKING AND COMPUTING (SGNC 2019)

## Symposium Co - Chairs:

**Antonio Capone**, Politecnico di Milano – DEIB, Italy (mail: [capone@elet.polimi.it](mailto:capone@elet.polimi.it))  
**and Josip Lorincz**, University of Split – FESB, Croatia (mail: [josip.lorincz@fesb.hr](mailto:josip.lorincz@fesb.hr))

## Call for Papers

The 10th Symposium on Green Networking and Computing (SGNC 2019) will be held in the frame of the 27<sup>th</sup> International Conference on Software, Telecommunications, and Computer Networks (*SoftCOM 2019*). The Symposium is organised since 2010 in the frame of the *SoftCOM* conference, which will take place on September 19-21, 2019 in the city of Split, one of the jewels of Croatia's glittering Adriatic coastline. In the frame of the Symposium, the 10th "Special Session on green networking and computing", invited talks, tutorials and business forum will be organized. Conference is technically co-sponsored by the IEEE Communication Society (*ComSoc*) and the Symposium is organized in cooperation with the IEEE Technical Committee on Green Communications and Computing (*TCGCC*) and EU Horizon 2020 *SCAVENGE* (sustainable cellular networks harvesting ambient energy) project.

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 the 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 contributes to global warming due to energy consumption of ICT devices and the activities related to their entire lifecycle.

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:

- Energy-efficient 5G networks and beyond
- 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 protocol extensions
- Energy-efficient transmission technologies
- Containers and microservices techniques for improving energy-efficiency
- Energy-efficient cloud computing and network function virtualisation
- Green wireless access networks and energy-efficient fog computing
- Green wired access networks
- Green future Internet and software-defined networking
- Energy cost models for network operators
- Energy-efficient sensor networks
- Renewable energy sources for communication 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.

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

<https://edas.info/newPaper.php?c=25835&track=95381>

Accepted and presented papers will be published in the conference proceedings. Accepted and presented papers will be published in the conference proceedings, and submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

## IMPORTANT DATES

Complete manuscript due (extended deadline): June 15, 2019

Notification of acceptance: July 25, 2019

Camera-ready manuscript: July 30, 2019

More information about the Symposium including details on the submission process is available on the website:

<http://softcom2019.fesb.unist.hr/>

Symposium contact person: **Josip Lorincz**, University of Split, Croatia ([josip.lorincz@fesb.hr](mailto:josip.lorincz@fesb.hr))

SoftCOM conference contact: [softcom@fesb.hr](mailto:softcom@fesb.hr)

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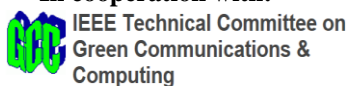


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Symposium Committee

## Symposium co-chairs:

**Antonio Capone**

Politecnico di Milano, Italy  
and

**Josip Lorincz**

University of Split, Croatia

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