IEEE International Workshop on Green Solutions for SmArt Environment (SAGE)

June 14–18, 2021
Montreal, Canada

SAGE Workshop Co-chairs

Swades De, Indian Institute of Technology Delhi, India

Stefano Chessa, University of Pisa, Italy

Michele Girolami, National Research Council (ISTI-CNR), Italy

Main contact
sage.workshop.ieee.icc2021 @gmail.com

Important Dates

❖ Paper submission deadline: **January 20, 2021**

❖ Notification of acceptance: February 20, 2021

❖ Camera-ready papers: March 1, 2021

Submission link
https://edas.info/N27513

Webpage link
sites.google.com/view/sage2021

Scope
As the number of communication devices and data demands are growing, awareness of the value of wireless communication gadgets has also tremendously increased. The need for higher agricultural productivity, industrial automation, clean air and clean water, convenient and safe city life, surveillance are some aspects that call for deployment of IoT devices for autonomous monitoring and actuation. Realization of large-scale deployment hinge upon green and energy-sustainable operation of the devices. In this framework, the SAGE workshop aims to draw together researchers and practitioners engaged in the progress and continued endeavors on such technology solutions. It focuses on the energy sustainability aspects of IoT and, in general, on machine-type communications, actuation, and control automation in smart environments, which is a major theme of 5G+ and 6G technologies. Beyond theoretical studies, the interest is on technology viability of green and energy-sustainable communication solutions ranging from low-rate telemetric communications to highly-reliable, ultra-low latency, and bandwidth-intensive communications.

Topics
We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- Energy resource aware access strategies for massive machine-type communication
- Application-context specific ambient energy harvesting techniques
- Cooperative energy management strategies
- Collaborative wireless energy transfer and information communication solutions
- Distributed beamforming technologies
- Machine learning techniques for energy management
- Energy harvesting aided distributed energy resources and smart grid connectivity
- Game theoretic and economic aspects of energy sustainability
- Mobile-aided (terrestrial and aerial) energy sustainable networking solutions
- Experimental testbed on energy sustainability
- Embedded systems and implementation platforms on energy sustainability
- Energy sustainability in Industry 4.0 standard through fog/edge/cloud computing
- Node-level and network-level energy management strategies
- Cross-layer solutions for energy-optimized smart communication devices
- Network architecture level solutions on energy sustainability
- Circuits and systems towards green energy solutions
- Bio-inspired energy-sustainable communications
- Light-weight, energy preserving security and privacy solutions

Paper Submission
The workshop accepts only novel, previously unpublished papers. The page length limit for all initial submissions for review is SIX (6) printed pages (10-point font) and must be written in English. All final submissions of accepted papers must be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures. No more than one (1) additional printed page (10-point font) may be included in final submissions and the extra page (the 7th page) will incur an over length page charge of USD100. For more information, please see IEEE ICC 2021 official website: https://icc2021.ieee-icc.org/authors