

# Call for papers

Green Computing, Networking, and Communications (GCNC) Symposium

ICNC 2020

Big Island, Hawaii, USA, Feb 17-20, 2020

<http://www.conf-icnc.org/2020/>

## Symposium Co-chairs

Lotfi Mhamdi, University of Leeds, UK, [L.Mhamdi@leeds.ac.uk](mailto:L.Mhamdi@leeds.ac.uk)

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## Scope

With the increasing proliferation of information and communication technologies (ICT) and applications, green computing, communications, and networking has become one of the important topics in order to reduce greenhouse gas emissions and improve the environmental sustainability. The objective of this symposium is to bring together researchers and engineers from both academia and industry worldwide to present cutting-edge research achievements covering all aspects of green ICT. To this end, this symposium solicits original theoretical, experimental, and design approaches that can cope with this paradigm shift towards green computing. The symposium also solicits the application of computing, communications, and networking technologies towards the development of sustainable energy systems that may include modernization of the electric power grid and the integration of distributed energy resources. Topics of particular interest include, but are not limited to the following.

- Green computing models, simulations, designs, and paradigms
- Green ICT operation with renewable energy
- Green materials and devices
- Green high-performance computing and applications
- Cross-layer optimization of green networking infrastructures
- Energy-aware software-defined networks
- Energy-aware algorithms and protocols
- Energy harvesting based communications, computing, and control
- Ambient energy harvesting, models, prediction, storage, and recycling
- Energy-efficient networking and computing infrastructures
- Energy-efficient multimedia systems
- Energy-efficient data center and cloud technologies
- Life-cycle analysis of communication and computing equipment, especially with energy harvesting
- Climate and ecosystem monitoring
- Integration of distributed energy resources and EVs utilizing ICT
- Design, analysis, and realization of smart grid
- Applications of energy efficient systems such as green Body Area Networks
- Implementations, test-beds and experimental results for green communications and computing
- Quality-of-service provisioning in green ICT

## **Submission Guidelines**

Please follow the author instructions at <http://www.conf-icnc.org/2020/author.htm>

Direct paper submission for this symposium can be found at <http://www.conf-icnc.org/2020/cfp.htm>

## **Short biography of co-chairs**

**Lotfi Mhamdi** received the Master of Philosophy (MPhil.) degree in computer science from the Hong Kong University of Science and Technology (HKUST) in 2002 and the PhD. degree in computer engineering from Delft University of Technology (TU Delft), The Netherlands, in 2007. He continued his work at TU Delft as post-doctoral researcher, working on high-performance networking topics within various European Union funded research projects. Since July 2011, he has been a Lecturer with the school of Electronic and Electrical Engineering at the University of Leeds, UK. Dr. Mhamdi is/was a technical program committee member in various conferences, including the IEEE International Conference on Communications (ICC), the IEEE GLOBECOM, the IEEE Workshop on High Performance Switching and Routing (HPSR), and the ACM/IEEE International Symposium on Networks-on-Chip (NoCS). He is the co-chair of the Next-Generation Networking symposium in IEEE GLOBECOM 2020.

**Dongmei Zhao** is Full Professor in the Department of Electrical and Computer Engineering at McMaster University, Canada. She received her Ph.D degree from University of Waterloo, Canada in 2002. Her current research areas are in mobile computation offloading, energy efficient wireless networking, and vehicular communication networks. She is an associate editor of the IEEE Internet of Things Journal and co-chair of the Mobile and Wireless Networks symposium in IEEE GLOBECOM 2020. She served as an associate editor of the IEEE Transactions on Vehicular Technology between 2007 and 2017, co-chair of the technical program committee for IEEE International Workshop on Computer Aided Modelling and Design of Communication Links and Networks (CAMAD) 2016, and co-chair of the Wireless Networking Symposium in IEEE GLOBECOM Conference.