

Call for Papers

Workshop on Smart Energy Systems

Energy Studies Institute, National University of Singapore

Digital technologies permeate modern life, affecting everything from the way we work and travel, to the way we live and play. Over the coming decades, digital technologies are set to make energy systems around the world more connected, intelligent, efficient, reliable and sustainable. Stunning advances in data, analytics and connectivity are enabling a range of new digital applications such as smart appliances, shared mobility, and 3D printing. While digitalization holds great promise to help improve the safety, productivity, efficiency and sustainability of energy systems worldwide, it also raises questions of security, privacy and economic disruption. Digitalized energy systems in the future may be able to identify who needs energy and deliver it at the right time, in the right place and at the lowest cost. But getting everything right will not be easy.

Digitalization is already improving the safety, productivity, accessibility and sustainability of energy systems. But digitalization is also raising new security and privacy risks. It is also changing markets, businesses and employment. New business models are emerging, while some century-old models may be on their way out. As such, policy makers, business executives and other stakeholders increasingly face new and complex decisions, often with incomplete or imperfect information. Adding to this challenge is the extremely dynamic nature of energy systems.

Smarter energy systems require smarter solutions. From the traditional long-lived physical infrastructure planning to balance the supply and demand, recent decades saw fast rising developments in smart grid, electric vehicles, smart charging, renewables integration, energy storage systems and connected devices. With digital technologies changing so rapidly, there are many unknowns about how technology, behaviour and policy will evolve over time and how these dynamics will impact energy systems into the future.

The aim of this workshop is to share the state-of-the-art in smart energy system developments. Under the contemporary challenges in energy and the environment, addressing the macro-level problems without losing track of the micro-level issues requires a robust and systematic approach that is interdisciplinary in nature.

We would like to invite scholars in the areas of energy systems analysis, energy efficiency and conservation, energy strategy and policy, and other areas related to the broad concept of “smarter energy” to contribute papers to our workshop co-located with the International Conference on Energy, Ecology, and Environment 2019 (ICEEE 2019). The ICEEE 2019 conference is scheduled from 23rd to 26th July 2019 in Stavanger, Norway. Our workshop is tentatively scheduled on 24th July 2019.

The followings are important:

- The ICEEE 2019 Call for Papers can be downloaded here. Please follow the instructions on the Call for Papers when preparing and submitting your paper.
- When submitting your paper, please indicate to the conference organizer that you are submitting the paper to the ESI’s Workshop.
- All conference papers will be peer reviewed and accepted conference papers will be published in the ICEEE conference proceedings in an EI-indexed Journal.
- Selected conference papers will be invited to submit a full journal article to a Special Issue in an SCI-Indexed Journals. Publication of the full journal article is subject to peer review managed by the supporting journals.

Please note that all participants will need to pay a registration fee directly to the conference organizer. Participants are also required to arrange their own travel and accommodation during the workshop and the conference. ESI is not responsible for handling the registration and logistics of the participants to the conference.

Key Dates

Submission Opens: 15 February 2019

Deadline for Submission: 15 May 2019

Notification of Acceptance: 20 May 2019

Final Paper Submission: 1 July 2019

Please contact Dr. Victor Nian at nian@nus.edu.sg if you have any question of an academic nature. For general inquiries on the ICEEE Conference, please contact iceee2019@iceee.net. A softcopy of workshop’s Call for Papers can be downloaded here.