Advances in Smart technologies and Applications

Zagdkhorol Bayasgalan, Bat-Erdene Byambasuren

Call for submission. This editorial introduces the issue of 2022 for *Embedded Selforganising Systems (ESS)* journal. This issue focuses on a discussion about Advances in Smart technologies and Applications in different areas of engineering solutions.

Our journal uses electronic publication, which provides a flexible way to submit and review the contributions of authors from all countries. The advantages of such an e-journal are multifarious. We replace the classic review and creation process with a new Sliding Issue model compared to traditional paper journals. Each issue starts with an initial editorial and an official call for papers. The submitted articles will be reviewed and, if accepted, published as soon as the committee receives the final version. Based on this process, each sliding issue can be filled successively until the maximum number of articles is reached. During this period, other researchers can already read accepted papers while other papers are still in the reviewing process-accordingly, the time to publish shrinks to a minimum. In addition, multiple issues with different focuses can co-exist at the same time, which provides completely new possibilities to react to the latest research topics. The journal also allows the integration of discussions and other reactions to published articles in the same journal issue.

We are welcoming fresh ideas, on-going research technical reports and novel scientific works. We also intend to create a promising platform for creative and constructive discussions.

Advances in Smart technologies and Applications

Smart technologies are rapidly developing in all infrastructure sectors and are deeply embedded in industry processes. The energy systems, electronics and ICT sectors are increasingly complex and mixed. The energy system is one of the most challenging sectors, and smart technology solutions can significantly benefit society.

The implementation of smart technologies in energy systems brings changes, provides various technological upgrades and increases the efficiency of the energy system and its components. The energy system is interconnected with the telecommunication infrastructure, and information technology is the backbone of the smart grid architecture.

In addition, with the large-scale penetration of renewable energy sources influencing the traditional structure of energy systems that are becoming more and more hybrid, the role of energy transactions is increasing.

Therefore, it is urgently needed to establish smart power grids to address the issues caused by the massive installation of REGs, especially in distribution systems because they are directly interfacing with customers. On the other hand, modern consumers demand more flexible requirements, and their behaviour becomes active in the energy system, where consumers become prosumers.

The environmental impact of various energy technologies could be reduced by using smart technologies that help ensure sustainable development and are carefully monitored to ensure long-term feasibility and environmental suitability.

Finally, the progress of smart technologies strongly depends on further advances in the development of electronic components, software solutions, sensor technologies, general network infrastructure and consumers. Smart technologies are an opportunity for humanity, bringing essential and valuable benefits.

This issue presents some research results from the Department of Electrotechnics, Power Engineering School, Mongolian University of Science and Technology. The Department of Electrotechnics includes the following programs: Automation of Electrical system, Electronics and Biomedical Engineering.

Our university has had direct contact with TU Chemnitz since 2007. The department started to contact Prof. Hardt in 2009. The first visible result was that our colleague successfully finished Dr.-Ing Habil under the consultation of Prof. Hardt. Since 2011 our department has cooperated with the Computer Science Faculty of CUT on different activities: the annual international symposium on computer science, computer engineering and educational technology, collaboration on laboratories between MUST and CUT, and international project on APOLI and SMRTCITY.

We want to express our appreciation to Prof. Hardt, his faculty, and our department colleagues.

SUBMISSION INSTRUCTIONS

Submissions for the journal must be made as complete papers (there is no abstract submission stage) submitted as PDF documents. Authors are requested to submit papers reporting original research results and experience. The page limit for regular papers is 4 to 6 pages and short papers are from 2 to 4 pages. Papers should be prepared using the IEEE two-column template. An MS Word template or ESS online journal is available here https://www.bibliothek.tu-

chemnitz.de/ojs/index.php/cs/information/authors

Papers should submit the following link of the journal:

https://www.bibliothek.tuchemnitz.de/ojs/index.php/cs/about/submissions

Submission period: Opening February 2022 and Closing 30th June 2022.

There is no charge for submission. Accepted papers are publishing free. Review in 2 weeks after submission. Camera-ready paper for publication should be submit in 2 weeks after review notes.

Thank you for Your Contribution!