

Call for Papers

Journal of Electronic Science and Technology, Special Section on Energy-Efficient Technologies—Crowd Energy Applications

Guest Editor

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The digital (R)evolution offers tremendous opportunities for the ambitious energy targets of this world as well as for utilities, e.g. bottom-to-bottom energy provision models (Crowd Energy) are no longer just theory but reality. But there are also risks, both in terms of cyber security and management. Energy-efficient technologies (EET) and renewable energy technologies have developed from fringe innovations to a core component of multiple socio-technical systems, successfully competing with “conventional” technologies in various markets and being the focus of a sizable and ever-growing field of scientific research. The focus of applying EET to create “smart” and sustainable environments is the improvement of human well-being and reduced energy and resource consumption. A higher degree of decentralization and Crowd Energy Applications are the basis for a smarter future. In these environments, the roles of an increasing number of people are changing from customers to prosumers. For a successful and sustainable design of smart environments, it is essential to analyze and discuss not only technical dimensions, but also sociological, economic, and political aspects, all of whom combine to enable successful transitions to more sustainable systems of the future.

Journal of Electronic Science and Technology (JEST) is soliciting original manuscripts for **Special Section on Energy Efficient Technologies—Crowd Energy Applications (CEA)** which appears on JEST periodically. This Special Section on EET intends to bring together the state-of-art research results and industrial applications of energy-efficient technologies. In this issue, Prof. Teufel will preside over this Special Section, and the Guest Editor and JEST will focus on Crowd Energy Applications. The accepted papers will be published for free and Open Access for readers.

Authors are invited to submit unpublished papers, which are not under review in any other conference or journal, in the following areas, but not limited to:

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- Crowd energy models, methods, technologies, applications
 - Business models for decentralized energy generation
 - Service innovation for decentralized energy generation
 - Transformations of energy systems towards more sustainable, decentralized configurations
 - Socio-political aspects of energy prosumer behavior
 - Energy prosumer's decision-making processes
 - Security in terms of crowd energy and smart living
 - Smart living demands: Technology, socio-economic, politics
 - Energy Systems at smart building and neighborhood scale
 - Legal Aspects for energy prosumers
 - Smart metering and dynamic pricing
 - Energy-aware and energy-efficient computing
 - Energy-efficient communication, networking, and protocols
 - Energy-efficient storage systems
 - Efficient power generation/conversion
 - Efficient power transmission/distribution
 - Energy-efficient transport and logistics
 - Energy monitoring and management

Paper Submission Deadline: 30th June, 2018

Accepted Paper Notification: 20th July, 2018

Final Paper Deadline: 31st August, 2018 (WORD version in JEST template style)

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All manuscripts will undergo the standard peer review process. Form manuscript preparation and submission, please follow the guidelines in the Information for Authors at <http://www.journal.uestc.edu.cn>. When submitting, please indicate that this paper is intended for JESTEET-CEA. All papers could be submitted through the online submission system on JEST website or via email journal@intl-jest.com or submitted to the Guest Editor.

The benefits and responsibilities of authors: All accepted papers will be published for free. All authors must sign the copyright agreement with JEST, which can be downloaded <http://www.journal.uestc.edu.cn>.

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