

Special Issue

IoT and Its Applications in Electric Energy Systems

Message from the Guest Editors

Electrical energy systems must integrate equipment that allows the monitoring, measurement, control and follow-up of domestic and industrial systems within the concept industry 4.0. Smart grids are part of Smart Cities that use systems for street lights control, energy smart meters, renewable energies and distributed micro-generation, etc. For these applications, the use of IoT and low-power long-range wireless networks (LPWAN) is fundamental to facilitate all the necessary tasks in the Smart grids. The development and expansion of the electric vehicle requires its monitoring, the state of charge of the batteries, the available autonomy and other electrical parameters. In this sense, the use of long-range networks, such as LoRa and NB-IoT, provide the basis for the development of all these functionalities. All the features described above for Smart Cities, with households, industries and electric vehicles must be monitored at all times. In this sense, the development of monitoring and control applications using mobile devices is a fundamental tool in this type of system, which complements all the possibilities offered by the IoT.

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Deadline for manuscript submissions

closed (31 December 2021)



Electronics

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Impact Factor 2.6
CiteScore 6.1



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