

Special Issue

Automation and Electrical Grids

Message from the Guest Editors

The domain of power and energy systems is undergoing a major change in terms of operation and planning. The advancement into a so-called smart energy system or a smart grid produces new challenges. With the introduction of distributed, renewable generation (solar, wind, small hydro power, etc.) and controllable loads (electric vehicles, energy storage systems, heat pumps, etc.), new and advanced automation, control, and Information and Communication Technology concepts and corresponding methods are required in order to cope with these new challenges. The aim of this Special Issue, therefore, is to tackle the ongoing digitalization-related changes and innovations in the domain of power and energy systems. We invite all papers with novel contributions to the field of automation and electrical grids relating to the following topics:

- Distribution automation and SCADA systems;
- Demand-side and energy management systems;
- Distributed automation concepts for cyber-physical energy systems;
- Advanced information and communication systems;
- Self-healing systems covering fault location, isolation, service restoration, etc.;
- Application of smart grid-related automation standards.

Guest Editors

Dr. Thomas Strasser

Prof. Dr. Peter Palensky

Prof. Dr. Antonello Monti

Deadline for manuscript submissions

closed (30 June 2021)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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