SUSTAINABLE ENERGY, GRIDS AND NETWORKS

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DESCRIPTION

*Sustainable Energy, Grids and Networks* (SEGAN) is an international peer-reviewed publication for theoretical and applied research dealing with energy, information grids and power networks, including smart grids from super to micro grid scales. SEGAN welcomes papers describing fundamental advances in mathematical, statistical or computational methods with application to power and energy systems, as well as papers on applications, computation and modeling in the areas of electrical and energy systems with coupled information and communication technologies.

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**Integrated operation of information and communication technologies (ICT) in electrical and energy systems**
- ICT integration in electrical and energy systems for monitoring and control
- Modeling of cyber-physical energy and communication systems
- Demand-side management and demand response: definition of control schemes and protocols
- Advanced metering infrastructures

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- Integrated electrical and thermal grids
- Active distribution networks and virtual power plants
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– New dynamics and stability issues in power systems
– Control and planning of centralized and distributed energy storage New components for future electrical and energy systems
– Coupled AC/DC supergrids
– High-Voltage DC technologies
– Coupling of energy conversion systems with electrical and energy grids Sustainability assessment of electrical and energy systems
– Policy, regulation and economics of modern electrical and thermal networks
– Development of the Smart City concept towards the integration of energy, transportation (e.g. electric vehicles) and ICT networks.

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