

Special Issue

Intelligent Design and Optimization of Distributed Energy Systems and Smart Infrastructure

Message from the Guest Editors

The transformation of energy systems and infrastructure is accelerating due to increasing demands for sustainability, resilience, and digitalization. This Special Issue focuses on the intelligent design, optimization, and integration of distributed energy systems (DESS) and smart infrastructure, aiming to address the challenges and opportunities associated with decentralized power generation, multi-energy coordination, and smart urban environments. The purpose of this issue is to synthesize innovative research on data-driven modeling, AI-enabled decision-making, real-time optimization, and cyber-physical system integration in energy systems. We welcome contributions that explore novel algorithms, tools, and frameworks that improve the planning, operation, and control of DESS and promote smart, efficient, and adaptive infrastructures. This Special Issue is intended to supplement the existing literature by providing a holistic view of how intelligent technologies can enhance the interaction between energy systems and the broader built environment.

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Designs (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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