

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.

Guest Editors

Dr. Saher Javaid

Department of Computer Science, Kanazawa Gakuin University, 10 Suemachi, Kanazawa 920-1392, Ishikawa, Japan

Prof. Dr. Yuto Lim

School of Information Science, Japan Advanced Institute of Science and Technology (JAIST), 1-1 Asahidai, Nomi 923-1292, Ishikawa, Japan

Deadline for manuscript submissions

30 April 2026



Designs

an Open Access Journal
by MDPI

CiteScore 4.8



mdpi.com/si/247106

Designs

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

designs@mdpi.com

mdpi.com/journal/

[designs](https://mdpi.com/journal/designs)





Designs

an Open Access Journal
by MDPI

CiteScore 4.8



[mdpi.com/journal/
designs](https://mdpi.com/journal/designs)



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Joshua M. Pearce

Department of Electrical & Computer Engineering, Western University,
London, ON N6A 3K7, Canada

Author Benefits

High visibility

: indexed within Scopus, Inspec, Ei Compendex and other databases.

Journal Rank:

CiteScore - Q2 (Engineering (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2025).