Special Issue

Advancements in Artificial Intelligence (AI) for Engineering Applications

Message from the Guest Editor

We are excited to issue a call for papers for a Special Issue of *Electronics* focusing on the intersection of artificial intelligence (AI) with engineering applications. This Special Issue aims to explore the latest advancements and practical implementations within the realms of swarm intelligence, optimization, fuzzy logic, natural language processing (NLP), computer vision, and reinforcement learning. We welcome contributions that present novel research findings, methodologies, and applications related to the aforementioned AI fields in engineering contexts. Topics of interest include, but are not limited to, the following:

- Development of advanced AI-based optimization techniques for engineering problems
- Integration of fuzzy logic principles into engineering systems to enhance adaptability and decision-making
- Utilization of NLP for improving human–computer interaction in engineering applications
- Application of computer vision techniques for object recognition, image analysis, and visual perception in engineering tasks
- Implementation of reinforcement learning algorithms for autonomous decision-making and control in engineering systems

Guest Editor

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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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).