

Special Issue

Recent Advances in Artificial Intelligence in Nuclear Engineering

Message from the Guest Editors

Artificial intelligence (AI) is spearheading a paradigm shift in nuclear engineering, offering data-driven solutions to long-standing challenges in system modeling, real-time monitoring, and multi-physics simulation. By integrating computational intelligence with domain expertise, AI technologies are redefining how nuclear systems are designed, analyzed, and operated—addressing bottlenecks such as high-dimensional complexity, computational inefficiency, and dynamic safety requirements. This Special Issue aims to highlight the diverse applications of AI in nuclear engineering, showcasing cutting-edge research that spans from fundamental algorithm development to industry-driven case studies.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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