Special Issue

Generative AI for Sensor Devices, Circuits and System Design

Message from the Guest Editor

The rapid evolution of generative artificial intelligence (AI) has revolutionized numerous fields, including sensor technology, circuit design, and system engineering. Generative AI, encompassing techniques such as generative adversarial networks (GANs), variational autoencoders (VAEs), and transformer-based models, offers unprecedented opportunities to optimize design processes, enhances educational methodologies, and addresses sustainability and energy challenges in engineering and physics. This Special Issue aims to explore the transformative potential of generative AI in the development of sensor devices, circuits, and systems, with a focus on interdisciplinary applications in design, education, engineering, physics, energy, and sustainability.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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