Special Issue

Intelligent Designing, Measuring and Control for Frontier Instrument and Equipment

Message from the Guest Editors

Advanced designing and control approaches, together with abundant measuring information, greatly enhance the performances of frontier instrument and equipment, regarding sustainability, vibration isolation, noise reduction, condition monitoring, fault diagnosis, autonomous behaviors, etc. Benefitting from interdisciplinary research into psychology, dynamics, system modeling, signal processing, control theory and computer science, intelligent designing, measuring and control approaches shed light in order to improve the intelligent level of frontier equipment, which paves the way to the future of smart equipment. However, the application and integrations of intelligent approaches, including neural networks, cognitive processes, fast computing, machine learning, and smart configuration, in frontier instrument and equipment are still facing great challenges and opening questions. The main purpose of this special focus is to review state-of-the-art solutions to present challenges and discuss possible applications of intelligent approaches in designing, measuring, and control of frontier equipment.

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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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