Special Issue

Numerical Modeling and Machine Learning Techniques

Message from the Guest Editors

The modeling and optimization of processes or products is today one of the most outstanding points for the advancement of today's society. Numerical modeling and machine learning techniques are undoubtedly among the most powerful methods and techniques for modeling and optimizing processes and products, reducing their cost of design and subsequent manufacturing. The main aim of this Special Issue on "Numerical Modeling and Machine Learning Techniques" is to present new knowledge and trends using numerical modeling or machine learning techniques for modeling and optimizing processes or products. Numerical modeling techniques of interest in this Special Issue include but are not limited to finite element analysis, the finite volume method, the finite difference method, the boundary element method, discrete element methods, multibody simulation, and computational fluid dynamics. Classification, regression, and optimization algorithms could be considered in developing machine learning or Artificial Intelligence techniques.

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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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