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## Artificial Neural Network and Heat Transfer

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Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editors

Dear Colleagues,

The Guest Editors are inviting novel submissions to a Special Issue of *Energies* on the subject area of “Artificial Neural Network and Heat Transfer”. There have been many emerging techniques for the simulation of Heat Transfer to solve several problems in the field of physics, material science, and metallurgy. Physical phenomena involved in Heat Transfer processes are extraordinarily complex, and therefore, there are several already known approximate methods based on numerical calculations and heuristics. Nevertheless, machine learning techniques are also applicable for these purposes. Artificial neural network (ANN)-based models trained on experimental or generated datasets can be used for similar predictions.

We seek original research papers on novel methods, discussions about the theoretical background (limitations of the experiments, parameters of the training data, data augmentation, ANN architecture, evaluation of the results, optimization methods, etc.), and high-level practical applications from the field of heat transfer.

Dr. Imre Felde  
Dr. Sándor Szénási  
*Guest Editors*



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# Special Issue



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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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