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Challenge and Research Trends of Artificial Neural Network

Guest Editor:

Dr. Konrad Zajkowski

Department of Energy, Faculty of
Mechanical Engineering,
Technical University of Koszalin,
Koszalin, Poland

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Message from the Guest Editor

Currently, artificial neural networks are used in many fields of technology. This is due to the need to optimize energy consumption in the design, production and operation process. Importantly, the use of autonomy in these processes leads to a reduction in operating costs. Performing technical diagnostics of the condition of the device leads to earlier detection of failures. As a result, failure-free operation time is extended, which reduces production costs. It also becomes easier to ensure continuity of product supply.

The background and aims of this Special Issue focus on the research challenges and trends that are commonly presented in *Energies*, as well as aspects relating to artificial neural networks. Therefore, articles discussing the above problems concerning all stages of production and operation of technological devices will be welcome. For the reader, the materials describing completed concepts that have already been implemented, or that are on the verge of implementation, will undoubtedly be of particular value.

Keywords:

- neural network;
- artificial intelligence;
- energy systems;
- technical diagnostics;
- energy saving.



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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