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Implementation of Machine Learning in Sustainable Electric Power Applications

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Message from the Guest Editors

Dear Colleagues,

In the coming developments, it will be critical to utilize our resources as intelligently as possible and to make renewable energy resources (RESs) the main providers of commercial energy. Direct implementation of this policy will see more efficient devices built, operated by and/or generating electric energy. Remaining challenges include the expected exponential increase in the penetration of RESs in electric grids. The systems built require better state awareness more flexibility in their operation.

Machine learning (ML) methods may be a strategy for realizing this control. Tailored to process through stochastic large datasets, ML and deep learning techniques have recently received a great deal of attention. These could be used for residential load forecasting, PV and wind energy generation forecasting, flexibility assessment, condition monitoring etc. in power systems applications such as motors and other electrical equipment.

This Special Issue covers all recent advances in machine learning and deep learning implementations for electric power applications.

Dr. Lauri Kütt
Dr. Noman Shabbir
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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