The Application of Machine Learning in Electrical Drive Renewable Energy Systems

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Machine learning models are broadly applied in power-electronic-based industrial drive systems. This includes speed and torque control of various dc and ac drives, feedback control of converter, tuning of offline P-I and P-I-D, nonlinearity compensation, online and offline computing, modeling, estimation of parameters, performance optimization of drive systems based on online finding, assessment for distorted waves, and many more. There is also a development in the accuracy, robustness, precision of the machine learning models in the energy systems by using various hybrid models.

- power system
- solar energy
- wind energy
- industrial drives
- electrical machines
- machine learning
- hybrid model
- energy system
- multi-level inverter

Dr. Manoj Kumar Sahu
Guest Editor

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Message from the Editor-in-Chief

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