Machine Learning Applications in Power System Condition Monitoring

Guest Editor:

Dr. Bruce Stephen
Department of Electronic and
Electrical Engineering, University
of Strathclyde, Glasgow G1 1RD,
UK

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Message from the Guest Editor

Dear Colleagues,

Power system condition monitoring offers a route to facilitating higher standards of operation but only if data can be reduced to an interpretable form - this is where machine learning offers leverage. Supporting existing domain expertise with higher resolution operational insight unlocks the investment in condition monitoring, and it is here that the design of appropriate analytics and automated processing is key. Whether at generation, transmission, distribution, or end use, power assets are diverse and their performance is reflective of their condition and operating environment. Accordingly, topics of interest for this Special Issue include:

- Monitoring of legacy assets
- Transmission and distribution network assets
- Prognostics for battery energy storage
- Minimal data availability
- Condition monitoring of power electronics
- Explicable machine learning
- Integration of machine learning with physics based models

Dr. Bruce Stephen
Guest Editor

Special Issue

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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