IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS INDIN'16

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Special Session on

"Advanced Signal processing methods and pattern and image recognition techniques for condition monitoring of electrical machines"

Organized by

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Call for Papers

Theme: (100 words)

Over recent years the use of advanced signal processing tools has proliferated in the electrical machines condition monitoring area. This has been due to the possibility of analysing machine quantities under any operation regime and the additional information that these tools provide. Moreover, image and pattern recognition algorithms are being increasingly employed to automatically process the results of these tools and for classification purposes.

This special session welcomes research papers showing novel applications of these signal analysis techniques in the electric machines condition monitoring area. Its scope also covers papers including applications of feature extraction, state estimation, pattern recognition and image processing techniques for diagnostic and prognostic purposes.

Topics of interest include, but are not limited to:

- Time-frequency decomposition tools;
- Pattern recognition algorithms;
- Signal analysis techniques;
- Image processing tools;
- Classification methods.

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[1] A good quality paper may be considered for publication in IEEE Transactions on Industrial Informatics subject to further rounds of review