

Annual Conference of the IEEE Industrial Electronics Society (IECON 2022)

Special Session on

“Advanced signal and image processing techniques for condition monitoring of Electric Machines and Drives”

Organized by

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Call for Papers

Theme:

The use of advanced signal processing tools and techniques in the electrical machines and drives condition monitoring area has drawn the attention of many researchers over recent years. Conventional diagnosis techniques relying on classical tools such as the Fast Fourier Transform are being complemented, or even replaced, by new methods based on modern signal processing tools suited for the analysis of non-stationary signals. This special session is intended to attract research papers showing novel applications of these signal analysis techniques in the electric machines and drives condition monitoring area. The scope also covers papers including applications of pattern recognition algorithms or image processing techniques for diagnostic or prognostic purposes both in electrical machines and drives.

Topics of interest include, but are not limited to:

1	Time-frequency decomposition tools
2	Pattern recognition algorithms
3	Signal analysis techniques
4	Novel Image processing tools
5	Classification methods
6	Deep learning
7	Artificial intelligence for condition monitoring
8	Infrared Thermography for condition monitoring

Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.

Sponsoring IES Technical Committee(s):

IEEE IES Technical Committee on Electrical Machines <https://sites.google.com/view/ieee-ies-emtc/home>

Submissions Procedure:

All the instructions for paper submission are included in the conference website: <https://iecon2022.org/>

Deadlines:

Full paper submission:	April 15, 2022
Paper acceptance notification:	June 17, 2022
Camera-ready paper submission:	July 29, 2022