34th IEEE International Symposium on Industrial Electronics (ISIE 2025)

Special Session on

"Advanced signal and image processing and AI 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 Artificial Intelligence (AI) techniques in the electrical machines and drives condition monitoring area has drawn the attention of many researchers over recent years. 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 and AI techniques for diagnostic or prognostic purposes both in electrical machines and drives whatever the application (power generation, drive system, etc.).

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
9	Machine learning methods

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Submission Procedure:

All the instructions for paper submission are included in the conference website**: https://ieee-isie-2025.org/**

Deadlines:

Full paper submission: March 31, 2025
Paper acceptance notification: April 15, 2025
Camera-ready paper submission: May 14, 2025

Please send this completed document to:
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