



The XXIth International Conference on Electrical Machines
ICEM 2014
September 2-5, 2014
Berlin - Germany

Special Session on

**MONITORING, FAULT DIAGNOSIS, AND PREDICTIVE MAINTENANCE
IN WIND GENERATORS**

organized and co-chaired by:
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Call for Papers

The importance of wind generation is growing fast in recent years. Wind generator groups include electrical machines working with electronic converters and mechanical systems with very specific configurations and functioning conditions. The aim of this special session is to discuss *new developments and recent experiences in monitoring, fault diagnostic techniques, and predictive maintenance strategies* in wind power plants involving the electrical generator.

This session includes, but is not restricted to, the following topics:

- New strategies in the monitoring systems of wind farms.
- Fault diagnostic based on generator electrical signal monitoring.
- Predictive maintenance strategies for wind generators.
- AI based techniques for mechanical and electrical fault detection in wind farms.
- On-line and off-line testing of wind groups.
- New Signal analysis techniques suitable for fault detection in wind groups.
- Prognosis in wind power plants.
- Modeling of wind groups focused to predictive maintenance and fault diagnosis.
- Failures in wind generation: fault classification and statistics.

Provisional full paper submission deadline:

30 January 2014

(The deadline is the same as for regular papers – check the website for changes)

All the instructions for paper submission are included in the conference website:

<http://www.icem2014.de>