



ICEM2022 – Valencia, Spain, September 5-8, 2022

Special Session on

MOTOR AND GENERATOR WINDINGS DESIGN, PERFORMANCE AND MANUFACTURING

Organized and co-chaired by:

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Call for Papers

Windings are a key part of electric motor and generator, having a strong impact in their efficiency, reliability and manufacturing cost. Hence, the respective design optimization, taking into account the manufacturing constraints, is of major importance.

In this scope, the topics of interest for this Special Session include, but are not limited to:

- Windings for asynchronous and synchronous motors/generators;
- Distributed/concentrated and integer-/fractional-slot windings;
- Multiflux/multivoltage, partial, Dahlander, and other special winding types;
- Winding connection-mode change for flux/torque adjustment;
- Windings for axial-flux motors (including those with copper/aluminum foil coils);
- Industrial winding manufacturing materials, processes and constraints;
- 3D-printed windings (materials, geometries, performance, etc.);
- Winding insulation system (materials, partial discharges and fault diagnosis);
- Stator winding heat dissipation (impregnation, potting, cooling techniques, etc.);
- Rotor winding/cage (design, materials, motor performance, etc.);
- Winding design, modelling, simulation and performance evaluation;
- Winding optimization techniques/methods;
- Best practices for motor/generator rewinding/repair.

Submission of papers: deadline follows the deadline for the regular papers.

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

<http://www.icem.cc/2022>