CALL FOR PAPERS

CISTEM 2016

Marakech, MAROC

October 26-28, 2016

Special Session on

MULTIPHYSICS ANALYTICAL MODELS for the DESIGN of ELECTRICAL MACHINES

MODELES MULTIPHYSIQUES "LEGERS" POUR LA CONCEPTION DE MACHINES ELECTRIQUES (MOTORISATION ET GENERATION)

Organized and co-chaired by
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The aim of this session will be to discuss recent developments concerning multiphysics analytical modeling for the design of electrical machines. By analytical models, it is meant models based on the formal solution (*separation of variables technique*) of partial derivative equations as well as lumped parameter methods.

Topics of interest include, but are not limited to:

- 2D and 3D analytical models.
- Validity domain of analytical models and related numerical problems.
- Hybrid analytical models
- Analytical static and dynamic magnetic models (eddy currents, iron losses, etc).
- Coupling of analytical magnetic and thermal models.
- Coupling of analytical magnetic and mechanical models
- Design optimization using analytical multiphysics models.