# **Special Issue**

### Mathematical Models for the Design of Electrical Machines

### Message from the Guest Editors

Electrical machines are used in many electrical engineering applications, viz., transports (e.g., electric/hybrid/fuel cell vehicles, railway traction, aerospace, etc.), energy harvesting (e.g., flywheel, etc.), renewable energy (e.g., wind power turbine, hydroelectric power plant, etc.), magnetic refrigeration device, etc. For decades, numerical methods (i.e., the finite-element, finite-difference or boundary-element analysis) have been widely used in R&D departments for their accuracy as compared to measurements. Nevertheless, mainly in 3-D, these approaches are timeconsuming and not suitable for the optimization problems. Nowadays, in order to reduce the computation time, R&D engineers must develop full computer-aided-design for electrical machines with accurate and fast models in simulations. Hence, the main objective of this Special Issue is to bring the latest advances and developments in mathematical modeling and design of electrical machines for different applications.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (31 October 2020)



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