# Special Issue

# Applications of Magnetic Gear and Magnetic Geared Motor

## Message from the Guest Editor

Magnetic gear has been researched since the early 20th century, and it has been designed through the imitated structure with the conventional mechanical gear as the counterparts. In recent years, the magnetic geared motor has emerged as a major interest in automotive applications, including full electric vehicles, hybrid vehicles, electric bikes, and personal mobility. This Special Issue aims to cover practical issues related to the design and manufacturing of the magnetic gear and geared machines. The topics of interest for this Special Issue include but are not limited to:

- Design and electromagnetic field analysis via the finite element method or analytical method;
- Coupled problems such as electromagnetic–thermal coupling problems, dynamic characteristics analysis, vibration and noise problems, and relevant multiphysics studies;
- Application of magnetic gear and geared machines in renewable energy, traction, and propulsion;
- Novel and innovative designs considering the field of applications;
- Other relevant research with innovative techniques, high-quality, and advanced contents of practical merit.

## Guest Editor

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## Deadline for manuscript submissions

closed (15 July 2020)

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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
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