PhD Public Defence

Title: Moulding Technology based Ferrite Magnet assisted Synchronous Reluctance Machine

Location: Pontoppidanstræde 111, auditorium

Time: Tuesday 8 May at 13.00

PhD defendant: Qian Wu

Supervisor: Associate Professor Kaiyuan Lu

Moderator: Associate Professor Tamas Kerekes

Opponents: Associate Professor Erik Schaltz, Dept. of Energy Technology, Aalborg University (Chairman)
Professor Yujing Liu, Chalmers University of Technology, Sweden
Associate Professor Gianmario Pellegrino, Politecnico di Torino, Italy

All are welcome. The defence will be in English.
Abstract:

Synchronous Reluctance Machine (SynRM) is a promising candidate in various industrial applications due to the advantages of competitive torque performance, low cost, simple manufacturing process and robust structure. For further improving torque production capability, the strategy of adding ferrite magnets to the rotor side of SynRM is generally recommended, leading to the machine type of Ferrite Assisted SynRM (FASynRM). The research work in this dissertation is dedicated to the design of a FASynRM based on moulding technology, aiming at replacing an existing Induction Machine (IM) commercial product.