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Chapter 1

Introduction

This document is a collection of some of the papers and PhD dissertations published along the years, during SyR-e development. In general, it is possible to access to the papers and dissertation through the IRIS portal at https://iris.polito.it/.



Chapter 2

List of Published Papers

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- [11] R. Leuzzi, P. Cagnetta, F. Cupertino, S. Ferrari and G. Pellegrino, "Performance assessment of ferrite- and neodymium ssisted synchronous reluctance machines," 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 3958-3965. Available here
- [12] M. Gamba, G. Pellegrino, E. Armando and S. Ferrari, "Synchronous reluctance motor with concentrated windings for IE4 efficiency," 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 3905-3912. Available here
- [13] S. Ferrari, G. Pellegrino, M. Davoli and C. Bianchini, "Reduction of Torque Ripple in Synchronous Reluctance Machines through Flux Barrier Shift," 2018 XIII International Conference on Electrical Machines (ICEM), Alexandroupoli, 2018, pp. 2290-2296. Available here
- [14] S. Ferrari and G. Pellegrino, "FEA-Augmented Design Equations for Synchronous Reluctance Machines," 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 5395-5402. Available here
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- [21] S. Ferrari, P. Ragazzo, G. Dilevrano and G. Pellegrino, "Determination of the Symmetric Short-Circuit Currents of Synchronous Permanent Magnet Machines Using Magnetostatic Flux Maps," 2021 IEEE Energy Conversion Congress and Exposition (ECCE), Vancouver. Available here



Chapter 3

List of Published PhD Thesis

- [1] M. Gamba, "Design of non conventional Synchronous Reluctance machines", Politecnico di Torino, 2017. Available here
- [2] C. Lu, "Design methods for Surface-Mounted Permanent Magnet Synchronous Machines", Politecnico di Torino, 2018. Available here
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