

PUBLICATIONS

PhD THESIS

1. “Contributions on the study of small doubly salient permanent magnet machines electronically auto commutated”, 2001, Technical University of Cluj-Napoca, supervisor: prof. Biro Karoly.

RELEVANT PUBLICATIONS

1. F. Jurca, Claudia Martis: “Theoretical and experimental analysis of a three-phase permanent magnet claw-pole synchronous generator”, IET Electric Power Applications 2012, Vol. 6, Iss. 8, pp. 491–503. [ieee](#), [ISI](#), [Scopus](#)
2. L.E. Somesan, E. Padurariu, I.A. Viorel, Claudia Martis, O. Cornea: “Simple Analytical Models of the Switched Reluctance Motors, Case Study”, International Conference on Electrical Machines (ICEM), 2010 XIX, on the CD, 978-1-4244-4174-7. [ieeee](#), [Scopus](#)
3. A.Matyas, G. Aroquiadassou, A. Mpanda-Mabwe, Claudia Martis, K. Biro: “Torque ripple analysis of a 42V fault tolerant six-phase permanent magnet synchronous machine”, IECON 2010 - 36th Annual Conference on IEEE Industrial Electronics Society, on the CD, ISBN: 978-1-4244-5225-5. [ieeee](#), [ISI](#), [Scopus](#)
4. Claudia Martis, C. Oprea, I.A. Viorel, J. Gyselinck: “Design of a Fault-Tolerant 6-phase Switched Reluctance Motor for Electric Power-Assisted Steering Systems”, IEEE International Conference in Electric Machines and Drives IEMDC 2009, Miami, USA, mai 2009, E-ISBN : 978-1-4244-4252-2, Print ISBN: 978-1-4244-4251-5. [ieeee](#), [ISI](#), [Scopus](#)
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8. Claudia Marțiș, H.C. Hedeșiu, L. Szabó, B. Tătăranu, F. Jurca, C. Oprea: “Electrical Machines Virtual Laboratory: Grid Connection of a Synchronous Generator”, Proceedings of the 12th International Power Electronics and Motion Control Conference (EPE PEMC '2006), Portoroz (Slovenia), 2006. [ieeee](#), [ISI](#), [Scopus](#)
9. H. Henao, Claudia Martis, G.A. Capolino: “An equivalent internal circuit of the induction machine for advanced spectral analysis”, IEEE Transactions on Industry Applications, vol. 40, no. 3, pp. 726-734, may-june 2004. [ieeee](#), [ISI](#), [Scopus](#)

10. H. Henao, Claudia Martis , G.A. Capolino: “*On the stray flux analysis for the detection of the three-phase induction machine faults*”, Proceedings of the 38th Annual IAS Meeting, October 2003, Salt Lake City, Utah USA, pp., 2003. [ieeee](#), [ISI](#), [Scopus](#)

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2. Claudia Martis, Hedesiu, H. – “Sisteme Electromecanice” Editura Mediamira Cluj-Napoca, 2007, ISBN 978-973-713-168-3.
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SCIENTIFIC PAPERS IN JOURNALS AND CONFERENCES PROCEEDINGS

1. T. Rusu, O. Birte, L. Szabo, Claudia Martis: “Script Controlled Modeling of Low Noise Permanent Magnet Synchronous Machines by using JMAG Designer”, Journal of Computer Science and Control Systems - Vol. 6, Nr. 1, 2013. [EBSCO](#)
2. A.T. Filip, R.P. Hangiu, Claudia Martis, K.A. Biro: “*Analytical Model for Predicting Displacements in Permanent Magnet Synchronous Machine*”, The 8th International Symposium on Advanced Topics in Electrical Engineering, May 23-25, 2013. [ieeee](#)
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7. F. Nicolae Jurca, R.P. Hangiu, C. Martis: “*Design and Performance Analysis of an Integrated Starter-Alternator for Hybrid Electric Vehicles*”, Advanced Engineering Forum (Volumes 8 – 9), pg. 453-460, 2013, [Scientific.net](#), [ISI](#)
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9. R.P. Hangiu, Claudia Martis, L. Szabo, K.A. Biro: “*A Review of Automotive Integrated Starter Alternators*”, Targoviste - Scientific Bulletin of the Electrical Engineering Faculty - Year 12 No. 2.
10. A.M.Gazdac, A.Mpanda Mabwe, Claudia Martis, F.Betin, K.Biro: “*Investigation on the Thermal Behavior of the dual-rotor Permanent Magnet Induction Machine*”, 38th Annual Conference on IEEE Industrial Electronics Society (IECON 2012) Book Series: IEEE Industrial Electronics Society Pages: 1858-1863, 2012. [ISI](#), [ieeee](#)

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