UNIVERSITÉ LIBRE DE BRUXELLES

Prof. Dr. ir. Johan GYSELINCK

Curriculum Vitae

Short CV

2004- : Professor at ULB, BEAMS dpt, Electrical Energy unit
2000-2004: Postdoctoral researcher and Maître de conference at ULiège
1993-2000: Researcher and PhD student at UGent

Education

Courses

Power electronics (5 credits) – 3 BA IR/EM
Electricité et électronique (5 credits, Frédéric Robert) – 2 BA IRBI
Multi-physics modelling and simulation (4 credits) – 1 MA/EM-Energy
Electrical drives (5 credits, Omar Hegazy) – 1 MA/EM
Renewable energy technology (5 credits, Julien Blondeau) – 2 MA/EM-Energy
Design and control of electrical machines (3 credits) – 2 MA/EM

Management responsibilities

2019- : Chairman of the Master juries of ULB Polytech
2005-2019- : Secretary of the Master juries of ULB Polytech
2020- :Vice-chairman of the program commission of the Electromechanical Engineering Master
2015-2020 : Chairman of the program commission of the Electromechanical Engineering Master at ULB
2021 -: Academic Coordinator for the Electromechanical Engineering Master

Scientific profile

ORCID ID: 0000-0003-0908-1655
Google Scholar Profile: https://scholar.google.com/citations?user=mV_VDDsAAAAJ&hl=en
ISI-ranked journal papers: **109** # Peer-reviewed conference papers: **230**
Citations (Google): **2935**, h-index (Google): **26**, h-index (Scopus): **22**

Five representative publications

Fabio, D. S., Jan, A., F., N., Gyselinck, J., van der Auweraer, H., & Luiz, G. (2014). Multiphysics NVH modeling: simulation of a switched reluctance motor drivetrain for an electric vehicle. IEEE Transactions on Industrial Electronics, 61(1), 469-476.

Pop, A.-C., Gyselinck, J., Pinto, D., & Vintiloiu, I. (2017). Optimization of Low-Power Brushless PM-Machines for Automotive Applications with Focus on High-Volume Mass Production. IEEE transactions on industrial electronics, 64(12), 7946135, 9767-9775. doi:10.1109/TIE.2017.2698367

Geury, T., Pinto, S., & Gyselinck, J. (2015). Current Source Inverter-Based PV System with Enhanced Active Filtering Functionalities. IET Power Electronics, 8(12), 2483-2491. doi:10.1049/iet-pel.2014.0814

Meinguet, F., & Gyselinck, J. (2009). Control reconfiguration strategies for four-leg inverter PMSM drives in case of single-phase open-circuit faults. IEEE International Electric Machines and Drives Conference (IEMDC2009), Miami, Florida, USA, 3-6 May 2009

Gyselinck, J., Sabariego, R., & Dular, P. (2007). Time-domain homogenization of windings in 2-D finite element models. IEEE Transactions on Magnetics, 43(4), 1297-1300.
doi:10.1109/TMAG.2007.892408