

Foreword about Lorand Szabo, member of the Department of Electrical Machines and Drives at the Faculty of Electrical Engineering, Technical University of Cluj, Romania:

Lorand Szabo was born in Oradea, Romania, in 1960. He received the B.Sc. and Ph.D. degree from Technical University of Cluj (Romania) in electrical engineering in 1985, respectively in 1995. He joined in 1990 the Technical University of Cluj (Romania) as a research & design engineer. Since October 1999 he is with the Department of Electrical Machines and Drives of the same university, where he was a lecturer, assistant professor and by now full professor. He is teaching Electrical machines and drives, Special electrical machines, CAD in electromechanical systems, etc. His current research interests include linear electrical machines, variable reluctance electrical machines, fault tolerant designs, fault detection and condition monitoring of electrical machines, etc. He has more than 250 publications in these fields. Professor Szabo was project manager for 10 research grants (4 in international cooperation, 4 national projects and 1 industrial project) and supervisor of 2 student research grants. He was member in several research teams working on 4 international and 28 national research projects. He owns 8 Research awards.



Lorand Szabo

Professor Szabo is strongly involved in project assessments and evaluations: for the European Commission (the Horizon 2020 Framework Programme, the Education, Audiovisual and Culture Executive Agency), ERA-NET Smart Cities & Communities, ERANETMED Energy, and for national research agencies from Romania, Hungary, Belgium, Austria, Georgia, etc.). He was reviewer for numerous journals, book chapters and international conferences (among them for ELEKTRO conferences organized by the Faculty of Electrical Engineering, University of Zilina, Slovak Republic) and he is journal editorial board member for 7 journals (including also AEEE – Advances in Electrical and Electronic Engineering). He is member of the IEEE since 2004. More details about him you can find on his home page: http://memm.utcluj.ro/szabo_lorand.htm. Following the latest evolution of the researches in the field of electrical machines, it can be observed, that the current developments are application focused. The electrical machines are designed and optimised for certain applications (having specific requirements) in order to fit perfectly to them. In the last years I was involved in developments regarding the increase of the fault tolerance of the electrical machines. This ability of the machines is required in various safety-critical applications, as aerospace, military, automotive, medical, etc. The increase of fault tolerance can be achieved by using special winding schemes, by splitting the windings into independently supplied channels, or by special modular constructions.

Dear Readers,

My first contact with Advances in Electrical and Electronic Engineering was in 2004 after my earliest participation in the ELEKTRO Conference organised in High Tatras. This was an excellent opportunity for me to get in a first contact with several researchers from the Czech Republic and Slovak Republic. Our three papers presented at the Conference were published in Advances in Electrical and Electronic Engineering. At that time I was surprised about the excellent quality both of the papers and the printed journal. For several years these papers were the flagships of my publication list and I became a fan of the journal. Therefore it was a special honour for me that I was selected to be Member of the Editorial Board among several well-known researchers in Electrical and Electronic Engineering.

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