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Membru Asociat
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Activitate științifică:

-5 cărți, cursuri

- peste 85 lucrări științifice, publicații în țară și străinătate Extras cele mai importante
10 lucrări: Mușuroi Sorin, Olărescu Nicola Valeriu, Vătău Doru, Șorândaru Ciprian,

Equivalent parameters of induction machines windings in permanent regime. Theoretical and experimental determination, Proc. of the 9th WSEAS International Conference on POWER SYSTEMS (PS '09), Budapest Tech, Hungary, 3-5 Septembrie, pp. 55-62, ISBN 978-960474-112-0, ISSN 1790-5117, 2009 - Indexată ISI. **Mușuroi Sorin**, Șorândaru Ciprian, Olărescu Nicola Valeriu, Marcus Svoboda, Mathematical Model of Three-Phase Asynchronous Servomotors in Stationary Non-sinusoidal Regime, Proc. Of the 9th WSEAS International Conference on POWER SYSTEMS (PS '09), Budapest Tech, Hungary, 3-5 Septembrie, pp. 123-126, ISBN 978-960474-112-0, ISSN 1790-5117, 2009 - Indexată ISI. **Mușuroi Sorin**, Vătău Doru, Andea Petru, Șurianu Flaviu, Frigură-Iliasa Flaviu, Bărbulescu Constantin, Analysis of the Magnetic Losses from the Induction Machines Supplied by Inverters, Proc. of The International Conference on Computer as a Tool, EUROCON 2007, Warsaw, Poland, 9-12 Septembrie, pp. 1800-1809, ISBN 14244-0813-X, 2007 - Indexată ISI. **Mușuroi Sorin**, Svoboda Marcus, Șorândaru Ciprian, Koblara Thomaque, Olărescu Nicola Valeriu, Deep bar effects produced by PWM power supplies in induction machines: Application to rotor Parameters determination, Conf. Proc. of Int. Conf. on Computer as a Tool, EUROCON 2011, Lisbon, 27 - 29 Aprilie, 4 pagini, ISBN 978-142447486-8, 2011 - Index. IEEE, SCOPUS, INSPEC. **Mușuroi Sorin**, Șorândaru Ciprian, Greconici Marian, Olărescu Nicola Valeriu, Weinman Martin, Low-Cost Ferrite Permanent Magnet Assisted Synchronous Reluctance Rotor an Alternative Solution for Rare Earth Permanent Magnet Synchronous Motors, Proc. of 39th Annual Conf. of the IEEE Industrial-Electronics-Society, Vienna, 10-14 Nov., pp. 2966-2970, ISBN 978-14799-0224-8, ISSN 1553-572X, 2013 - Indexată ISI. Șorândaru Ciprian, **Mușuroi Sorin**, Svoboda Marcus, Olărescu Nicola Valeriu, Popovici Dorin, Field Oriented Control Drives for Naval Mechanism, Proc. EUROCON 2009, Int. Conference of IEEE, Saint Petersburg, Russia, 18-23 Mai, pp. 717-720, ISBN 978-14244-3861-6, 2009 - Indexată ISI. Olărescu Nicola Valeriu, **Mușuroi Sorin**, Șorândaru Ciprian, Frigură-Iliasa Flaviu, Mihai, Scalar control systems with permanent magnet synchronous motors with sinusoidal current control. Calculatin of speed controller parameters, Revue Roumaine des Sciences Techniques. Serie Electrotechnique et Energetique, Tome 57, Issue 1, pp. 70-79, ISSN 00354066, 2012 - Indexată ISI. Olărescu Nicola Valeriu, **Mușuroi Sorin**, Enhanced Simplified Control Algorithm for Surface-mounted Permanent Magnet Synchronous Motors with Sinusoidal Excitation, Conference IPEMC 2004, Xi'am, China, 14-16 August, pp. 1049-1053, ISBN 7-5605-1869-9, 2004 - Indexată ISI. Olărescu Nicola Valeriu, **Mușuroi Sorin**, Șorândaru Ciprian, Weinmann Martin, Zeh Stefan, Optimum Current Control for Wide Speed Range operation of PMSM Drive Without regenerative Unit Utilizing PWM-VSI Overmodulation, Proceedings OPTIM 2012, Brașov, 24-26 Mai, pp. 612- 617, ISBN 978-14673-1652-1, 2012- Indexată IEEE, SCOPUS, INSPEC. Olărescu Nicola Valeriu, Weinmann Martin, Zeh Stefan, **Mușuroi Sorin**, Șorândaru Ciprian, Control of Wide Speed Range PMSM Drives with Large DC-Link Variations without Regenerative Unit utilizing PWM-VSI overmodulation, Proc. ECCE 2012, Raleigh, North Carolina, 15-20 Septembrie, pp. 831-837, ISBN 978-14673-080142012, 2012 - Indexată ISI.

14 granturi și contracte de cercetare științifică - Analysis and Evaluation of Current Topologies and Solutions for three phase Power Factor Correction (PFC) for 400 V mains voltage, BCI1/24.01.2014, Beneficiar Diehl AKO Stiftung&Co.KG Germania, 13000 Euro - Director.- Analysis and Evaluation of Current Topologies and Solutions for the Single Phase Power Factor correction (PFC) for Grid Tied Inverters, BCI1/28.01.2013, Beneficiar Diehl AKO Stiftung&Co.KG Germania, 15000 Euro - Director.- Contract for research-development and consultancy, 9228/6.07.2010, Beneficiar Diehl AKO Stiftung&Co.KG Germania, 14000 Euro - Director.