



### Lista lucrărilor publicate:

- [1] Sebastian Kula, **Sorin I. Cosman** “ *Switched Reluctance Motor Model Implemented on PXI FPGA Target*” Iunie 30, 2016 - Fundamentals of Electrical Engineering (ISFEE), International Symposium - 10.1109/ISFEE.2016.7803165
- [2] **Sorin I. Cosman** ; Claudia S. Martis ; Radu Martis “*Coupled electric - thermal model for SR-drives*”, iunie 2017 - 15th International Conference on Electrical Machines, Drives and Power Systems (ELMA), 2017, ISBN 978-1-5090-6690-2, DOI: 10.1109/ELMA.2017.7955466 ISI
- [3] **Sorin I. Cosman** ; Claudia S. Martis “*SRM Flux Linkage Profile Measurement and Estimation Methods*” Sep 8, 2017 - EEMODS'17 - Energy Efficiency in Motor Driven Systems 6 - 8 SEPTEMBER 2017, ROME
- [4] Marius Drancă ; Mihai Chirca ; **Sorin I. Cosman** ; Florin Jurca ; Ștefan Breban “*Experimental Validation of a Permanent-Magnet Micro-Wind Turbine Generator with Counter Rotating Rotors*” Oct 2017 - CIEM 2017 - Energy saved today is asset for future; 8th International Conference on Energy and Environment
- [5] **Sorin I. Cosman**, Raul Nemes, Claudia Martis “*Design, building and testing a high voltage-low current drive for SRMs used for automotive applications*” iunie 12, 2018 - I&CPS Europe - Palermo, IEEE International Conference on Environment and Electrical Engineering, 10.1109/EEEIC.2018.8494503
- [6] Marius Alexandru Drancă ; Mihai Chirca ; **Sorin I. Cosman** ; Ștefan Breban “*Design Analysis of a Permanent Magnet Brushless Generator with Two Counter Rotating Rotors for Small-Wind Turbine*” oct 2018 International Conference on Applied and Theoretical Electricity (ICATE)
- [7] **Sorin I. Cosman**, Vasile Ionuț Boancă, Claudiu Oprea, Claudia Marțiș,” *Design, Building and Testing of a Low Voltage-High Current Drive for MRCs Used for HVAC Applications*”, International Conference and Exposition on Electrical and Power Engineering (EPE). Iasi Oct 18, 2018, 10.1109/ICEPE.2018.8559845
- [8] **Sorin I. Cosman**, Radu A. Marțiș, Claudiu Hangea, Claudia S. Marțiș,” *Scaled MRC and Drive Unit for HVAC Systems in Electric Vehicles*”, the 11th international symposium on advanced topics in electrical engineering - Bucharest, Romania, Mar 28, 2019, 10.1109/ATEE.2019.8724932
- [9] Alexandru R. Iusan, Păunescu Mihai, **Sorin I. Cosman**, Nicolae M. Bîrlea,” *Aplication of blade electrodes in electroporation and his importance in electrical properties of skin*”, the 11th international symposium on advanced topics in electrical engineering - Bucharest, Romania, Mar 28, 2019, 10.1109/ATEE.2019.8724919



- [10] **Sorin I. Cosman**, Cristina A. Moldovan, Rareș A. Iușan, Claudiu Oprea, Claudia S. Marțiș, “ *Development of an Automated System to Optimize Greenhouse Resource Consumption*”, Modern Power Systems Conference 8 th Edition Cluj-Napoca, May 21, 2019, 10.1109/MPS.2019.8759727
- [11] **Sorin I. Cosman**, Cristina A. Bilatiu, Claudia S. Marțiș, “ *Development of an Automated System to Monitor and Control a Greenhouse*”, 15th International Conference on Engineering of Modern Electric Systems (ICEMES 2019), Jun 13, 2019
- [12] Maria Nuțu, Horia F. Pop, **Sorin I. Cosman**, Andreea Nicorici, Claudia Marțiș, “ *A Machine Learning Perspective for Order Reduction in Electrical Motors modelling*”, 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2019, Sep 4, 2019
- [13] Cristina-Adina Bilațiu ; **Sorin I. Cosman** ; Radu-Andrei Marțiș ; Claudia Steluța Marțiș ; Silvan Morariu “ *Indentification and evaluation of electric and hybrid vehicles propulsion systems* “ Oct 3, 2019 ELECTRIC VEHICLES INTERNATIONAL CONFERENCE & SHOW - EV2019
- [14] Alexandru Rares Iusan ; Nicolae Marius Bîrlea ; **Sorin I. Cosman** ; Mihai Păunescu “ *The voltage effect on electrical parameters of the skin, ECG electrodes interface*” Nov 21, 2019 - IEEE International conference E-HEALTH and Bioengineering "EHB2019", Iasi, Romania
- [15] **Sorin I. Cosman** , Iulia Văscan, Cristina Bilațiu, Marius Drâncă, Rareș Iușan, Claudia Marțiș - “ *EDM cutting for rapid prototyping of a PMBG*” - May 2020 - IEEE International conference Elektro2020, Taormina, Italy
- [16] **Sorin I. Cosman** , Iulia Văscan, Cristina Bilațiu, Adriana Tintelecan, Claudia Marțiș, Blca Zorlescu – “ *Design and Analysis of a Heating, Ventilation and Air Conditioning System for Electric Vehicles*” Jun 2020 - Speedam 2020 – Sorrento