

2005

1. Simion Al., Lucache D. D., Livadaru L., **Munteanu A.**, 2005 – **Self-Excited Hybrid Synchronous Generator as Electric Energy Source on Automotives**, 5-th. Intern. Conference on Electromechanical and Power Systems - SIELMEN'2005, Chișinău, Rep. Moldova, Oct.2005, Proc. Vol. 2, Ed. PIM, ISBN 973-716-230-7, p.(796-799),
2. Simion Al., **Munteanu A.**, Livadaru L., 2005 –**On the Possibility of Using Hybrid Synchronous Generators for the Electromechanical Conversion of the Wind Energy** – *Bul. Inst. Polit. Iași*, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, p.(125 -131), ISSN 1223-8139,
3. Simion Al., **Munteanu A.**, Nacu I., 2005 – **Aspects Regarding the Performance of Using Hybrid Synchronous Generators that Operate between Large Limits of Speed** – *Bul. Inst. Polit. Iași*, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, p.(131 -138), ISSN 1223-8139,
4. **Munteanu A.**, Simion Al., Livadaru L., 2005 – **Comparative Study on the Under-load Operation with Imposed Conditions of a Hybrid Synchronous Generators** – *Bul. Inst. Polit. Iași*, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, p.(161 -166), ISSN 1223-8139,
5. Simion Al., **Munteanu A.**, Hanganu R., 2005 – **F.E.M. Study of a New Hybrid Synchronous Generator for Automotives** – *Bul. Inst. Polit. Iași*, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, p.(167 -172), ISSN 1223-8139,

2006

6. Simion Al., **Munteanu A.**, Livadaru L., Cojan M., 2006 – **Study of a New Hybrid Synchronous Generator for Islanded Users**, 5th International Symposium *Advanced Topics in Electrical Engineering, ATEE'2006*, Univ. Politehnica of Bucharest, Sect.8 , Paper nr. 11, pag.(1-4), 2006, ISBN 973-8987-12-1, ISBN 978-973-8987-12-8,
7. Hanganu R., Simion Al., Livadaru L., **Munteanu A.**, 2006 – **F.E.M. Study of the Electromagnetic Torque Developed by a D.C. Machine** – *Bul. Inst. Polit. Iași*, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, p.(347 -352), ISSN 1223-8139,
8. **Munteanu A.**, Simion Al., Livadaru L., Hanganu R., 2006 – **On the Possibility of Voltage Variation of a Hybrid Synchronous Generator** – *Bul. Inst. Polit. Iași*, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, p.(371 -376), ISSN 1223-8139,
9. Nacu I., Simion Al., **Munteanu A.**, 2006 – **Electric Discharges Influence on the Magnetic Properties of the Bearings Componetnts Used in Electric Machines** – *Bul. Inst. Polit. Iași*, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, p.(377 -382), ISSN 1223-8139,
10. Simion Al., **Munteanu A.**, Livadaru L., Nacu I., 2006 – **Comparative Study of the Operating Characteristics of a Hybrid Synchronous Generator With Wye or Delta Connection** – *Bul. Inst. Polit. Iași*, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, p.(423 -428), ISSN 1223-8139,

2007

11. Al. Simion, L. Livadaru , **A. Munteanu**, D. Lucache, 2007 - **Considerations on the Experimental Performance Developed by a Hybrid Synchronous Motor-** Proceedings of the International Aegean Conference on Electrical Machines and Power Systems & Electromotion Joint Conference, ACEMP'07, Bodrum, Turcia, 10-12 sept., p.(560-565), ISBN 978-975-93410-2-2.
Database: INSPEC
12. Al. Simion, **A. Munteanu**, L. Livadaru, M. Cojan (2007) - **Study on the characteristics of a new hybrid synchronous generator**, Academie Roumaine, *Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energ.*, Tome 52, 3, 2007, p.(321-330), ISSN 0035-4066. .
cotata ISI, Database: INSPEC
13. Simion Al. , **Munteanu A.**, Livadaru L., (2007) – **On the Characteristics of the Hybrid Synchronous Generator** Rev. *Advances in Electrical and Computer Engineering*, vol. 7(14), nr. 4(36), 2007, ISSN 1582-7445, p. (120-125) **cotata ISI**
14. **Munteanu, A.**; Simion, Al.; Livadaru, L., Hanganu, R. (2007) – **Experimental Study on a Hybrid Synchronous Generator with Output Voltage within Large Limits**, *International Symposium on Electrical Engineering and Energy Converters ELS - 2007* – Ed. Universității din Suceava, p.(23-29), ISBN 978-973-666-259-1,
15. Simion, Al.; Hanganu, R.; Livadaru, L.; **Munteanu, A.** (2007) - **F.E.M. comparative study of a D.C. motor with separate excitation used on the vehicles**, *International Symposium on Electrical Engineering and Energy Converters ELS - 2007* – Ed. Universității din Suceava, p.(71-77), ISBN 978-973-666-259-1,
16. Simion, Al.; **Munteanu, A.**; Livadaru, L. (2007) - **Consideration on the operating characteristics of the hybrid synchronous generator with wye or delta connection**, *International Symposium on Electrical Engineering and Energy Converters ELS - 2007* – Ed. Universității din Suceava, p.(89-95), ISBN 978-973-666-259-1,
17. **Munteanu, A.**; Simion, Al.; Livadaru, L., (2007) – **Estimated Performances of a Hybrid Synchronous Motor Used as Integrated Starter-Alternator**, Seminarul Național de Electrotehnica Teoretică, SNET-07, Universitatea POLITEHNICA București, 12-14 oct. 2007 p. 47-52 ISBN: 978-973-718-899-1,
18. Dumitrescu, R.; Simion, Al.; Livadaru, L.; **Munteanu, A.**(2007)– **Studiul câmpului magnetic al unei mașini de inducție**, Seminarul Național de Electrotehnica Teoretică, SNET-07, Universitatea POLITEHNICA București, 12-14 oct. 2007 p.459-464, ISBN: 978-973-718-899-1,

2008

19. A. Munteanu, Al. Simion, L. Livadaru, - **Optimization Study upon Excitation Pole Shape of a Hybrid Synchronous Generator**, *SPEEDAM 2008-XIX International Symposium on Power Electronics, Electrical Drives, Automation and Motion (CD)* Ischia-Italy, June 10-13, 2008, ISSN 978-1-4244-1663-9/2008, p(1292-1296). **ISI Web of Knowledge?**
20. Munteanu,A.; Simion, Al.; Livadaru, L. (2008)- **Performance Analysis of a Hybrid Synchronous Machine under Generating and Motoring Duty**, - *ICEM:2008, International Conference on Electrical Machines*, Vilamoura, Portugalia, 6-9 sept. 2008, vols 1-(4110—4115) (2009) IEEE Catalog Number: CFP0890B-CDR, ISBN: 978-1-4244-1736-0, Library of Congress: 2007906913. **ISI Web of Knowledge,**
21. Hanganu R., Simion Al., Livadaru L., Munteanu A., 2008 – **Influence of the Variable air-gap upon the Electromagnetic Torque Developed by the D.C. Machine** – *Bul. Inst. Polit. din Iași*, tom LIV(LVIII), S. Electrot., Energ., Electronică, fasc.4, 2008, p.(901 -906), ISSN 1223-8139,
22. Simion, Al.; Livadaru,L.; Cojan, M.; Lucache, D.; **Munteanu, A.**; Hanganu, R. (2008) - **The Electrical Machine – Environment Interaction, a Case Study on the Homopolar Structure** - *Proceedings of the 2nd International Symposium on Electrical and Electronics Engineering, ISEEET-2008*, Galați, Romania, Sept. 12-13, 2008, p. (336-339), ISSN 1842-8046.

2009

23. L. Livadaru, Al. Simion, **A. Munteanu**, S. Mihai, M. Cojan, A. Malanciu (2009)- **Study of the Start-up of an Induction Machine with Broken Rotor Bars by Means of FEM-Based Simulation**, Proceeding of the 3rd International Symposium on Electrical Engineering and Energy Converters (ELS2009), Suceava, Romania, Sept. 24-25, 2009, p.(49-52), ISSN:2066-853X
24. M. Cojan, Al. Simion, L. Livadaru, **A. Munteanu**, (2009) -**Aspects Regarding Reduction the Influence of the Potential Polluting Factors over the Life Span of the Electrical Machines**, Proceeding of the 3rd International Symposium on Electrical Engineering and Energy Converters (ELS2009), Suceava, Romania, Sept. 24-25, 2009, p.(17-20), ISSN:2066-853X
25. **A. Munteanu** , Al. Simion, L. Livadaru (2009)- **FEM-Based Simulation of a Brushless Motor Behavior for Different Supplying Strategies**, Proceeding of the 3rd International Symposium on Electrical Engineering and Energy Converters (ELS2009), Suceava, Romania, Sept. 24-25, 2009, p.(57-60), ISSN:2066-853
26. **A. Munteanu**, Al. Simion, L. Livadaru, (2009) – **Evaluation and Performance Analysis of a Dual-Rotor Hybrid Synchronous Machine**, Vol. SNET-09 Univ. Politehnica Bucuresti, p.(21/263-26/263), ISSN 2067-4147.

2010

27. Al. Simion, L. Livadaru, S. Mihai, **A. Munteanu**, C.-G. Cantemir, (2010) – **Induction Machine with Improved Operating Performances for Electric Trucks. A FEM-Based Analzsis**, Rev. *Advances in Electrical and Computer Engineering*, vol. 10, nr. 2, 2010, ISSN 1582-7445, p. (71-76) cotata ISI
28. Al. Simion, S. Mihai, L. Livadaru, **A. Munteanu** (2010) – **The Induction Machine with Ring Stator Winding as a Possible Solution for Speed Regulation**, OPTIM 2010, 12th International Conference on Optimization of Electrical and Electronic Equipment, p. (395-400), ISBN 978-1-4244-7020-4/2010, **IEEEExplore Database: INSPEC**
29. M. Jeder, D. Cernomazu, **A. Munteanu**, Al. Simion, L. Livadaru, A. Malanciu, (2010) – **Thermal Analysis of Two Paraffin Actuators with Internal Electrical Heating Sources**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(83-86), ISBN 978-606-13-0079-2
30. L. Livadaru, B. Vîrlan, Al. Simion, **A. Munteanu**, S. Mihai, A. Malanciu, (2010) – **Finite Element Analysis Concerning the Influence of Rotor Slot Configuration on the Performance of High-Speed Induction Motor**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(197-200), ISBN 978-606-13-0079-2
31. A. Malanciu, Al. Simion, L. Livadaru, **A. Munteanu**, S. Mihai, (2010) – **3D FEM-Based Simulation of a Permanent Magnet Synchronous Generator**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(205-208), ISBN 978-606-13-0079-2
32. L. Livadaru, M. Cojan, Al. Simion, A.-M. Mihai, **A. Munteanu**, (2010) - **Upon the Electromagnetic Pollution of Electrical Machines. A FEM Approach**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(219-222), ISBN 978-606-13-0079-2
33. Al. Simion, B. Vîrlan, L. Livadaru, **A. Munteanu**, A.-M. Mihai, (2010) – **Induction Motor with external Rotor and Toroidal Stator Winding**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(223-226), ISBN 978-606-13-0079-2
34. B. Vîrlan, Al. Simion, L. Livadaru, **A. Munteanu**, S. Mihai, A. Malanciu, (2010) – **FEM Based Transient Analysis of an Induction Machine with External Rotor**, EPE 2010, 6th International Conference on Electrical and Power Engineering, vol.II, p.(227-230), ISBN 978-606-13-0079-2

2011

35. Al. Simion, L. Livadaru, **A. Munteanu** – **New Approach on the Study of the Steady-State and Transient Regimes of Three-Phase Induction Machines**, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, p. (1-6), ISSN – L 1224-7928.
36. L. Livadaru, F. Lazar, Al. Simion, **A. Munteanu**, A. Malanciu, S. Vlasceanu – **Permanent Magnet Synchronous Machines with Halbach Array Configuration – a F.E.M. Approach**, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, p. (17-22), ISSN – L 1224-7928.
37. A.-M. Mihai, Al. Simion, L. Livadaru, B. Virlan, **A. Munteanu** S. Vlasceanu – **Novel Core Design for Improving Performance of the Induction Machines**, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, p. (23-26), ISSN – L 1224-7928.
38. B. Virlan, Al. Simion, L. Livadaru, **A. Munteanu**, A.-M. Mihai, S. Vlasceanu – **External Rotor Shape Estimation of an Induction Motor by FEM Analysis**, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, p. (27-32), ISSN – L 1224-7928.
39. **A. Munteanu**, Al. Simion, L. Livadaru, A. Malanciu – **PM Tubular Linear Synchronous Generator for Wave Energy Conversion**, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, p. (57-60), ISSN – L 1224-7928.
40. A. Malanciu, Al. Simion, **A. Munteanu** – **Finite Element Method Study of the Hybrid Synchronous Generator by Skewed Stator Slots**, *Bul. Inst. Polit. din Iași*, tom LVI (LXI), S. Electrot., Energ., Electronică, fasc.3, 2011, p.(45 -50).
41. B. Virlan, L. Livadaru, Al. Simion, **A. Munteanu**, A.-M. Mihai – **Design and FEM Simulation of a Fractional Power Three-Phase Induction Motor for Oil-Submerged Applications**, Proc. of 25th European Conference on Modeling and Simulation, ECMS 2011, June 7-10, Krakow, Poland, p. (181-187), ISBN 978-0-9564944-2-9.
42. S. Mihai, Al. Simion, L. Livadaru, **A. Munteanu** – **Induction Motor with switchable Number of Poles and Toroidal Winding**, Rev. *Advances in Electrical and Computer Engineering*, vol. 11, nr. 2, 2011, ISSN 1582-7445, p. (113-118) **cotata ISI**.
43. N.-D. Irimia, Al. Simion, L. Livadaru, **A. Munteanu**, O. Dabija, S. Vlasceanu – **Control Strategies Simulation of a 3 Phase (6/4) Switched Reluctance Motor**, Proc. of the 8th International Conference on Electromechanical and Power Systems, SIELMEN 2011, October 11-15, p. (13-18).
44. G.-D. Petropol-Serb, I. Petropol-Serb, I. Cautil, **A. Munteanu** – „**Open-Ended Laboratory” Method Applied in the Conception of a Test Bench to Simulate a „Diesel-Electric” Transmision**, Annals of the University of Craiova, Electrical Engineering series, No 35, 2011, p. (184-191).
45. A. Malanciu, Al. Simion, L. Livadaru, **A. Munteanu**, C. Afanasov – „**FEM-basec Analysis of a Hybrid Synchronous Generator with Skewed Stator Slots**”, Rev. *Advances in Electrical and Computer Engineering*, vol. 11, nr. 4, 2011, ISSN 1582-7445, p. 9-14 **cotata ISI**.

2012

46. Al. Simion, L. Livadaru, **A. Munteanu**, - **Study of the Induction Machine under Transient Duty and Steady-State as Synchronized Motor**, EPE 2012, 7th International Conference on Electrical and Power Engineering, Oct 25-27, 2012, p.(472-475), ISBN 978-1-4673-1172-4 **ISI Web of Knowledge**
47. **A. Munteanu**, Al. Simion, L. Livadaru, B. Virlan, M. Sandru, - **Three Phase Squirrel-Cage Induction Motor Optimization Using Finit Element Method**, EPE 2012, 7th International Conference on Electrical and Power Engineering, Oct 25-27, 2012, p.(464-467), ISBN 978-1-4673-1172-4 **ISI Web of Knowledge**
48. R. Hanganu, **A. Munteanu**, Al. Simion, L. Livadaru, A. Malanciu, B. Anghel, **Study of a Direct Current (DC) Machine Used on Automotive Low Environmental Impact Applications**, Environmental Engineering and Management Journal Vol. 11, No. 9, ISSN: 1582-9596, p. 1725-1729, Septembre 2012 **cotata ISI**
49. B. Virlan, S. Benelghali, **A. Munteanu**, Al. Simion, R. Outbib, **Multi-Speed Induction Motor for Direct Drive Applications**, OPTIM 2012, 13th International Conference on Optimization of Electrical and Electronic Equipment, p. (1926-1932), ISBN 978-1-4673-0141-1.
50. L. Livadaru, Al. Simion, S. Vlasceanu, **A. Munteanu**, D. Irimia, **Dual FEM-Simulink Analysis of Induction Motor Operating under Unbalanced State**, OPTIM 2012, 13th International Conference on Optimization of Electrical and Electronic Equipment, p. (493-502), ISBN 978-1-4673-0141-1.
51. A.-M. Mihai, Al. Simion, S. Mihai, L. Livadaru, **A. Munteanu**, **Two-Phase Induction Machine with Toroidal Winding and Impoved Performance**, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, p. (137-142), ISSN – L 1224-7928.
52. Al. Simion, L. Livadaru, **A. Munteanu**, **Study of Induction Machine under Transient Duty and Steady-State as Synchronized Machine**, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, p. (291-296), ISSN – L 1224-7928.
53. L. Livadaru, Al. Simion, **A. Munteanu**, M. Sandru, O. Dabija, M. Cojan, **Design and FEM-Based Simulation of a High-Power Induction Motor with Start-Up Constraints**, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, p. (101-106), ISSN – L 1224-7928.
54. Al. Simion, L. Livadaru, R.-V. Cociu, **A. Munteanu**, **Analysis of Three-Phase Induction Machine Operating under Transient Dynamic Braking by Using the Mathematical Model in Total Fluxes**, SNET'12 Conference Proceedings, ISSN 2067-4147, p. 38-43.
55. N.-D. Irimia, Al. Simion, O. Dabija, S. Vlasceanu, **A. Munteanu**, **Sinusoidal Control of a Single Phase Special Topology SRM, without Rotor Position Sensor**, SNET'12 Conference Proceedings, ISSN 2067-4147, p. 80-85.
56. S. Vlasceanu, Al. Simion, N.-D. Irimia, **A. Munteanu**, O. Dabija, **Experimental Results versus FEM Based Analysis of a Squirrel Cage Induction Motor**, SNET'12 Conference Proceedings, ISSN 2067-4147, p.183-188.

57. O. Dabija, Al. Simion, L. Livadaru, **A. Munteanu**, D. Irimia, **Transient and Steady State Analysis through Simulations of an Axial-Field Single-Pole Single-Phase Switched Reluctance Motor Prototype**, SNET'12 Conference Proceedings, ISSN 2067-4147, p.228-233.

2013

58. Al. Simion, L. Livadaru, R.-V. Cociu, **A. Munteanu**, **Study of the Three-Phase Induction Machine under Dynamic Braking**, Rev. Roum. Sci. Tech. – Electrotech. Et Energ., 58, 3, p. 273-283, Bucarest, 2013, ISSN 0035-4066. **cotata ISI**

59. L. Livadaru, Al. Simion, **A. Munteanu**, M. Cojan, O. Dabija, **Dual Cage High Power Induction Motor with Direct Start-Up. Design and FEM Analysis**, Advances in Electrical and Computer Engineering, vol. 13, No. 2, 2013, p. 55-58. **cotata ISI**

60. B. Anghel, L. Livadaru, Al. Simion, **A. Munteanu**, S. Vlasceanu, **Upgrade of an Induction Motor to Superior Power Levels**, SIELMEN 2013, 9th International Conference and Exhibition on Electromechanical and Power Systems, 16 October 2013, Iasi, Romania, 17-18 October 2013, Chisinau, Rep. Of Moldova, p. 304-308, ISBN 978-606-13-1560-4.

61. Al. Simion, B. Anghel, L. Livadaru, **A. Munteanu**, **Three-Phase Mathematical Model of the D.C. Machine**, SIELMEN 2013, 9th International Conference and Exhibition on Electromechanical and Power Systems, 16 October 2013, Iasi, Romania, 17-18 October 2013, Chisinau, Rep. Of Moldova, p. 286-293, ISBN 978-606-13-1560-4.

62. **A. Munteanu**, L. Livadaru, Al. Simion, M. Cojan, **LabVIEW Application for Better Understanding Armature Reaction in Synchronous Generators**, SIELMEN 2013, 9th International Conference and Exhibition on Electromechanical and Power Systems, 16 October 2013, Iasi, Romania, 17-18 October 2013, Chisinau, Rep. Of Moldova, p. 235-240, ISBN 978-606-13-1560-4.

63. **A. Munteanu**, L. Livadaru, Al. Simion, B. Virlan, B. Anghel, **Influence of the Stator Winding on the Performance of a five-Phase PMSG**, Buletin AGIR nr.4/2013, p. 195-199, ISSN-L 1224-7928.

64. B. Virlan, S. Benelghali, Al. Simion, L. Livadaru, R. Outbib, **A. Munteanu**, **Induction Motor with Outer Rotor and Ring Stator Winding for Multispeed Applications**, IEEE Transactions on Energy Conversion, Vol. 28, No. 4, December 2013, p. 999-1007, ISSN 0885-8969. **cotata ISI**

2014

65. A. Munteanu, A. Simion, D. A. Hagianu, L. Livadaru and D. Bidei, "Special three-phase to multiple different polyphase systems electric transformer," Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on, Iasi, 2014, pp. 345-348. doi: 10.1109/ICEPE.2014.6969926

66. L. Livadaru, A. Simion, A. M. Mihai, A. Munteanu, F. Lazăr and A. Adam, "New winding solution for the improvement of the three-phase induction motor performance," *Electrical and Power Engineering (EPE)*, 2014 International Conference and Exposition on, Iasi, 2014, pp. 295-298. doi:

10.1109/ICEPE.2014.6969916

67. L. Livadaru, **A. Munteanu**, Al. Simion, B. Virlan, S. Benelghali *Study on the Fault-Tolerance Concept of the Five-Phase Permanent Magnet Synchronous Generator*, Advances in Electrical and Computer Engineering, Vol. 14, Iss. 2, p. (77-84), may 2014, ISSN 1582-7445,

68. *L. Livadaru, C. Nuțescu, A. Munteanu, Al. Simion, M. Cojan Comparative FEM-based Analysis of Multiphase Induction Motors Analele Universității « Eftimie Murgu », Nr.2/2014 (B+), p.(223-230), ISSN 1453-7397*

2015

69. L. Livadaru, A. Munteanu, A. Simion and C. G. Cantemir, "Design and finite element analysis of high-density torque induction motor for traction applications," *2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, Bucharest, 2015, pp. 211-214.
doi: 10.1109/ATEE.2015.7133766