
Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Electrică
Departamentul Electroenergetică și Management.
Conf. dr. ing. Aurel Botezan

LISTA lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Îmbunătățirea calității energiei electrice la consumator utilizând sisteme active”
conducător științific: Prof. dr. ing. Virgil Maier
Universitatea Tehnică din Cluj-Napoca
Susținere publică: 26.10.2010.

B – Cărți și capitole în cărți

CĂRȚI

1. Bălan H., **Botezan A.**, Munteanu R.A., - *Echipamente electrice*, Editura Mediamira, Cluj-Napoca, 2010, ISBN 978-973-713-282-6, 175 pagini;
2. Tîrnovan R., Vădan I., Bălan H., **Botezan A.**, - *Protecții prin relee în sistemele electroenergetice*, Editura UT PRESS, Cluj-Napoca, 2008, ISBN 978-973-662-375-2, 238 pagini;
3. **Botezan A.**, Vădan I., Tîrnovan R., Bălan H., - *Producerea energiei electrice. Lucrări de laborator*, Editura UT PRESS, Cluj-Napoca, 2013, ISBN 978-973-662-826-9, 151 pagini.

C – Lucrări indexate ISI/BDI publicate

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **Botezan, A.**, Tîrnovan, R., Munteanu R., Graur, A., Rafiroiu D., Hysteresis Current Control of the Single-Phase Voltage Source Inverter Using eMEGAsim Real-Time Simulator, *In Advances of Electrical and Computer Engineering*, Volume 15, Number 3, 2015, pp. 99-104, ISSN 1582-7445

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul Inginerie Energetică (DBLP, ACM, IEEE, SCOPUS)¹

2. Stefanescu, S., **Botezan, A.**, Overview of the protection lightning standards suite EN/IEC 62305, *Proceedings of the 2016 International Conference and Exposition on*

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

- Electrical and Power Engineering, EPE 2016*, 20-22 Octombrie 2016, Iași România, pp. 504-509, ISBN 978-150906129-7, [IEEE], [SCOPUS]
3. Balan, H., Vadan, I., Buzdugan, M., **Botezan, A.**, Karaissas, P., Fault identification of rotating electric machines using comparative analysis methods, *Proceedings of the International Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2011 and Electromotion 2011 Joint Conference*, 8-10 Septembrie 2011, Istanbul, Turcia, pp. 276-281, ISBN 978-146735003-7, [SCOPUS],
 4. Balan, H., Buzdugan, M.I., **Botezan, A.**, Munteanu, R.A., Karaissas, P., Psomopoulos, C., Testing wind variable speed driving systems for conducted interferences, *Proceedings of the 21st International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2012*, 20-22 Iunie 2012, Sorento, Italia, pp. 565-570, ISBN 978-146731299-8, [IEEE], [SCOPUS],
 5. Balan, H., Stefan, E., Cozorici, I., Botezan, A., Karaissas, P., Converters used in HVDC systems. The study of switching, *Proceedings of the 3rd International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2011*, 14-16 Iunie 2011, Ischia, Italia, pp. 600-603, ISBN 978-142448928-2, [IEEE], [SCOPUS],
 6. Botezan, A., Darie, S., Vădan, I., Bălan, H., Tîmovan, R., Design and analysis of a permanent-magnet electrodynamic vibrator, *Proceedings of the 8th International Symposium on Advanced Electromechanical Motion Systems and Electric Drives Joint Symposium, ELECTROMOTION 2009*, 1-3 Iulie 2009, Lille Franța, ISBN 978-142445152-4, [IEEE], [SCOPUS],
 7. Balan, H., Buzdugan, M.I., Munteanu, R., Vadan, I., **Botezan, A.**, Ricobon, A., A design method for EMI filters mitigating perturbations generated by a PWM converter, *Proceedings of the International Conference on Clean Electrical Power*, 9-11 Iunie 2009, Capri, Italia, pp. 443-447, ISBN 978-1-4244-2544-0, [IEEE],
 8. Balan, H., Munteanu, R., Vadan, I., **Botezan, A.**, Nedelcut, D., Inverse currents injection module for direct current interrupters, *Proceedings of the International Symposium on Power Electronics, Electrical Drives, Automation and Motion - SPEEDAM 2008*, 11-13 Iunie 2008, Ischia, Italia, pp. 393-398, ISBN 978-142441664-6, [IEEE], [SCOPUS],
 9. Balan, H., Chindris, M., Vadan, I., **Botezan, A.**, Proca, V., Frequency converter energetic performances analysis, *Proceedings of the International Aegean Conference on Electrical Machines and Power Electronics and Electromotion ACEMP'07 and Electromotion'07 Joint Conference*, 10-12 Septembrie 2007, Bodrum, Turcia, pp. 195-198, ISBN 1424408911;978-142440891-7, [IEEE], [SCOPUS],
 10. Balan, H., **Botezan, A.**, Tirnovan, R., Vadan, I., Iacob, A., Inverter with hybrid commutation for DC-AC conversion systems, *Proceedings of the 1st IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Plants and Power Systems, ICPS'07*, 9-11 Iulie 2007, Cluj-Napoca, Romania, pp. 193-196, ISBN 978-390266138-8, [SCOPUS],

D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. **Botezan, A.**, Tirnovan, R., Ștefănescu, S., Rafiroiu, D., Solutions for Compensating Voltage Variation and Flicker in Electricity Distribution Networks, *In Acta Electrotehnica*, Vol 56, No. 1-2, 2015, pp. 57-63, ISSN 1841-3323;

2. **Botezan, A.**, Vădan, I., Ștefănescu, S., Hysteresis Current Control of the Single-Phase Active Filter, *In Annals of the University of Craiova, Serie Electrical Engineering*, Year 37, No. 37, 2013, pp. 89-93, ISSN 1842-4805;
3. **Botezan, A.**, Vădan, I., Ștefănescu, S., Grid Connection of Small Hydropower Plant, *In Acta Electrotehnica*, Vol 54, No. 5, 2013, pp. 73-77, ISSN 1841-3323;
4. Breaz, Elena, Tîrnovan, R., **Botezan, A.**, Oneț, Oana, Dynamic Modeling of a Proton Exchange Membrane Fuel Cell Stack for Real Time Simulation, *In Acta Electrotehnica*, Vol 52, No. 5, 2011, ISSN 1841-3323;
5. Oneț, Oana, Tîrnovan, R., Breaz, Elena, **Botezan, A.**, Fuzzy Logic Control of DC-DC Converter Used for Regulating of the PEM Fuel Cell Output Voltage, *In Acta Electrotehnica*, Vol 52, No. 5, 2011, ISSN 1841-3323;
6. Bălan, H., **Botezan, A.**, Buzdugan, M., Ștefan, Elena, Pîrv, G., Karaissas P., The off-line diagnose of automatic circuit breakers by the time domain and frequency vibration analysis, *In Annals of the University of Craiova, Serie Electrical Engineering*, Vol. I, No. 34, 2010, pp. 113-118, ISSN 1842-4805;
7. Bălan, H., Buzdugan, M., Munteanu, R. A., **Botezan, A.**, Cozorici, I., Avram, V., Insulation Resistance Testing of the Medium Voltage Switches, *In Annals of the University of Craiova, Serie Electrical Engineering*, Vol. I, No. 34, 2010, pp. 142-147, ISSN 1842-4805;
8. Bălan, H., Buzdugan, M., **Botezan, A.**, Sasu, G., Munteanu, R.A., Duță, M., Iacob, Ana, Testing Variable Speed Driving Systems for Conducted Interferences, *In Annals of the University of Craiova, Serie Electrical Engineering*, Vol. II, No. 34, 2010, pp. 123-126, ISSN 1842-4805;
9. Bălan, H., **Botezan, A.**, Buzdugan, M., Karaissas, P., Duță, M., Iacob, Ana, Real time simulation of Active Filters with EMEGASIM 4508 Platform-Case Study, *In Annals of the University of Craiova, Serie Electrical Engineering*, Vol. II, No. 34, 2010, pp. 147-152, ISSN 1842-4805;
10. Tîrnovan, R., Breaz, E., Vădan, I., Bălan, H., **Botezan, A.**, Analysis of the Dynamic Performance of a Proton Exchange Membrane Fuel Cell Stack for Stand-Alone Applications, *In Acta Electrotehnica*, Vol 51, No. 5, 2010, pp. 360-365, ISSN 1841-3323;
11. **Botezan, A.**, Bălan, H., Tîrnovan, R., Vădan, I., Ștefănescu, S., Real Time Simulation of a Single-Phase Shunt Active Filter, *In Acta Electrotehnica*, Vol 51, No. 5, 2010, pp. 53-58, ISSN 1841-3323;
12. **Botezan, A.**, Maier, V., Ștefănescu, S., Reference Current Estimation for Shunt Active Filter Control, *In Acta Electrotehnica*, Vol 51, No. 5, 2010, pp. 59-64, ISSN 1841-3323;
13. Vădan I., Pavel Gh. S., **Botezan A.**, Ardelean Simona, Mutu Anca, The Developing of a Scientific Renewable Energies Park, *In Acta Electrotehnica*, Vol. 49, No. 5, 2008, pp. 265-268, ISSN 1841-3323;
14. Tîrnovan R., Vădan I., Bălan H., **Botezan A.**, Energetic Balance of a Proton Exchange Membrane Fuel Cell (PEMFC) Generator, *In Acta Electrotehnica*, Vol. 49, No. 5, 2008, pp. 256-260, ISSN 1841-3323;

- Selecție cu maximum 20 lucrări în volume de conferințe

15. Ștefănescu, S., **Botezan, A.**, Overview of the Protection Lightning Standards Suite EN/IEC 62305, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, EPE 2016, 20-22 October 2016, Iași, România, pp. 504-509;

16. **Botezan, A.**, Tirnovan, R., Boiciuc, I., Ștefănescu, S., Rafiroiu, D., Automatic Transfer Switch using IEC 61850 Protocol in Smart Grids, Proceedings of the International Conference and Exposition on Electrical and Power Engineering, EPE 2014, 16-18 October 2014, Iasi, România;
17. Chiorean, Cristina, Bălan, H., Buzdugan, M., **Botezan, A.**, Vădan, I., Karaissas, P., Vernados, P., Reduction of the Current Distortion Factor of the Electromagnetic Vibrators Supplied at Variable Frequency, International Symposium JapMed'7, 6-9 July 2011, Budapest, Hungary;
18. Leach, Florina, Munteanu, R. A., Vădan, I., **Botezan, A.**, LabView Based Instrumentation System for wind – hidro Power Station, Proceedings of the XIV Conference Computer Applications in Electrical Engineering, Poznan, April 20-22, 2009;
19. Bălan, H., Vădan, I., Buzdugan, M., **Botezan, A.**, Karaissas, P., EMI Filters Performances Analysis. Case Study., International Conference on EDPE, 12-14 October 2009, Dubrovnik, Croatia;
20. Balan, H., Munteanu, R., **Botezan, A.**, Balan, Anca, Environment Management on Phonic Aspect of One Surgeon Room. A Case Study, Proceedings of the 6th International Conference on Management of Technological Changes, 3-5 September 2009, Alexandroupolis, Greece, ISBN 978-960-89832-6-7, ISBN (Vol. 1) 978-960-89832-7-4;
21. Bălan H., Vădan I., **Botezan A.**, Ștefănescu S., Karaissas P., Vibro-Achoustic Diagnosis of a Ventilator Driving System International Conference on Electrical Machines ICEM 2008, Vilamoura, Portugalia, 06-Sep 2008, ISBN 978-1-4244-1736-0, pp. 234-238, 2008;
22. Balan, H., Vădan, I., **Botezan, A.**, Vibro-acoustic Diagnosis for Ventilators Driving System of UNIGLASS Equipment Type UGT-2400x4200, International Symposium on Progress in Electrical Equipment Monitoring and Diagnosis, SMDEE 2007, Baile Olanesti, 26-28 Noiembrie 2007, ISSN 1224-0575, 2007;
23. Balan, H., **Botezan, A.**, Vădan, I., Karaissas, P., Proca, V., Analysis Of Modern Techniques For Machining Of Pieces With Cylindrical Symmetry, 11th International Research/Expert Conference” Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, 5-9 September, 2007
24. Balan, H., **Botezan, A.**, Vădan, I., Tirnovan, R., Proca, V., Analysis of Inverter-Electromagnetic Vibrator System Used in Vibrocompacting Technology, 11th International Research/Expert Conference” Trends in the Development of Machinery and Associated Technology” TMT 2007, Hammamet, Tunisia, 5-9 September, 2007

E – Brevete obținute pentru întreaga activitate

Nu este cazul

Data 30.09.2024

Semnătura

