

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,
PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT**

Ing. Mircea GURBINĂ

1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1.1. **M. Gurbina**, D. Lascu, "Stability Aspects in One-Cycle Controlled Buck Converters" *Advances in Electrical and Computer Engineering*, Vol.14 number 1/2014, p. 43-48, Publication Year: 2014 Vol.14 number 1/2014, p. 43-48, ISSN: 1582-7445, eISSN: 1844-7600;, WOS:000332062300007, Web of Knowledge - Thomson Reuters ISI/ Web of Science.

1.2. **M. Gurbina**, A. Cireșan, D.Lascu, S. Lica, I-M Pop-Regateanu, "A New Exact Mathematical Approach for Studying Bifurcation in DCM Operated dc-dc Switching Converters" *Energies* 2018, 11(3), 663; p.1-25, <https://doi.org/10.3390/en11030663> , ISSN: 1996-1073, WOS:000428304300191, Web of Knowledge - Thomson Reuters ISI/ Web of Science.

2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

2.1. **M. Gurbina**, D. Drăghici, A. Cireșan, D. Lascu, "A New General Mathematical Technique for Stability and Bifurcation Analysis of DC-DC Converters Applied to One-Cycle Controlled Buck Converters with Non-Ideal Reset", *Proceedings of the 14th International Conference on OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT OPTIM 2014*, May 22-24, 2014, Brasov (Bran), Romania, pp. 576-581, ISBN 978-1-4799-5183-3, ISSN 1842-0133, ISBN (ISSN):978-1-4799-5183-3/14 ©2014 IEEE - pentru lucrare, DOI:10.1109/OPTIM.2014.6850891 (IEEE), WOS:000343551300085, INSPEC Accession Number: 14432814, Web of Science

2.2. D. Drăghici, **M. Gurbina**, A. Cireșan, D. Lascu, "Predictive Leading-Edge Modulation Average Current Control in DC-DC Converters", *Proceedings of the 14th International Conference on OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT OPTIM 2014*, May 22-24, 2014, Brasov (Bran), Romania, pp. 588-594, ISBN 978-1-4799-5183-3, ISSN 1842-0133, ISBN (ISSN):978-1-4799-5183-3/14 ©2014 IEEE DOI:10.1109/OPTIM.2014.6850890 (IEEE), WOS:000343551300087, INSPEC Accession Number: 14447020, Web of Knowledge - Thomson Reuters ISI/ Web of Science și IEEE Explore 2014.

2.3. **M. Gurbina**, S. Lica, D. Lascu, "Stability and bifurcation aspects in charge controlled DC-DC converters", in *2014 11th International Symposium on Electronics and Telecommunications (ISETC)*, pp.33-36, 14-15 Nov. 2014, ISBN: 978-1-4799-7267-8, DOI: 10.1109/ISETC.2014.7010740, WOS: 000366633300008, Web of Science.

2.4. S. Lica, **M. Gurbina**, D. Draghici, D. Iancu, D. Lascu, "A new quadratic buck converter", 2014 11th International Symposium on Electronics and Telecommunications (ISETC), pp.37-40, 14-15 Nov. 2014, ISBN: 978-1-4799-7267-8, DOI: 10.1109/ISETC.2014.7010741, WOS: 000366633300009, Web of Science.

2.5. D. Draghici, **M. Gurbina**, D. Lascu, "Stability Analysis of DC-DC Converters Employing Digital Predictive Leading Triangle Modulation Valley Current Control", 37th International Conference on Telecommunications and Signal Processing (TSP), July 9-11, 2015, Praga, Cehia, Page(s): 1 – 6. DOI: 10.1109/TSP.2015.7296407; ISBN:978-1-4799-8498-5; WOS:000375231000033; Web of Science.

2.6. S. Lica, **M. Gurbina**, D. Lascu, I.- M. Pop-Călimanu, A. Cireșan, "A Novel Stacked Step-Down Switching Converter", *2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP)*, 25-27 May 2017, Cheile Gradistei - Fundata Resort, Romania, 6 pagini, pp. 549-554, ISBN 978-1-5090-4489-4, ISBN (ISSN): 978-1-5090-4489-4; WOS:000426909600083, (IEEE, SCOPUS, Google Scholar, etc.)

2.7. S. Lica, I.- M. Pop-Călimanu, D. Lascu, A. Cireșan, **M. Gurbina**, " A new stacked step-up converter", *2017 40th International Conference on Telecommunications and Signal Processing (TSP)*, 5-7 July 2017, Barcelona,

Spain, 5 pagini, pp. 315-319, ISSN: 1805-5435, ISBN: 978-1-5090-3981-4, DOI: 10.1109/TSP.2017.8075995, WOS:000425229000069; IEEE, SCOPUS, Google Scholar, etc.

2.8. I.-M. Pop-Călimanu, D. Lascu, S. Lica, **M. Gurbină**, F. Renken, "A New Hybrid Boost-L Converter", *19th International Symposium POWER ELECTRONICS Ee2017*, October 19-21, 2017, Novi Sad, Serbia, DOI: 10.1109/PEE.2017.8171668; ISBN:978-1-5386-3502-5; WOS:000426894600012; Web of Science Core Collection

2.9. **M. Gurbina**, I.-M. Pop-Călimanu, D. Lascu, S. Lica, A. Ciresan, "Exact Stability Analysis of a Two-Phase Boost Converter", 41st International Conference on Telecommunications and Signal Processing (TSP), pp.1-4, 4-6 July 2018, Atena, Grecia, WOS:000454845100075, ISBN:978-1-5386-4695-3;DOI: 10.1109/TSP.2018.8441450

2.10. I.-M. Pop-Călimanu, S. Lica, D. Lascu, F. Renken, **M. Gurbină**, R. Mîrșu "A Novel Hybrid Step-Down DC-DC Converter", 2018 IEEE 18th International Power Electronics and Motion Control Conference (PEMC) pp.1-4, 26-30 August 2018, Budapesta, Ungaria, ; WOS: 000462062900004

2.11. **M. Gurbina**, M.Lascu, D. Lascu "Tumor Detection and Classification of MRI Brain Image using Different Wavelet Transforms and Support Vector Machines", 41st International Conference on Telecommunications and Signal Processing (TSP), pp.1-4, 1-3 July 2019, Budapesta, Ungaria, în curs de publicare; WOS:

3. Lucrări științifice publicate în reviste de specialitate indexate BDI (cu specificarea BDI)

3.1. **M. Gurbina**, D. Lascu, "Unfeasability of One Cycle Control when Applied to ZETA Converters", *International Review of Automatic Control (IREACO)*, 2012, Mar 2012, Vol. 5, Issue 2, pp. 172 – 178., BDI

3.2. A. Cireșan, D. Drăghici, **M. Gurbină**, D. Lascu, "A New Boost DC-DC Converter Exhibiting Low Stresses and High Efficiency", *International Review of Electrical Engineering (IREE)*, 2013, Vol. 8, nr. 6, 7 pagini, November – December 2013, pp.: 1694 – 1700, ISSN 1827-6660, eISSN 1827-6679, (Scopus, CSA și Copernicus), BDI

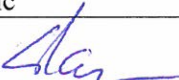
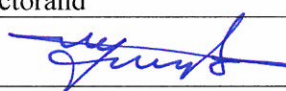
3.3. D. Drăghici, A. Cireșan, **M. Gurbină**, D. Lascu, "Predictive Trailing Triangle Modulation Peak Current Control in DC-DC Converters", *International Review of Automatic Control (I.R.E.A.CO.)*, Vol. 7, No. 1, 7 pagini, Jan. 2014, pp. 74-81, Print ISSN: 1974-6059, Cd-Rom ISSN: 1974-6067. (Scopus, CSA și Copernicus), BDI

3.4. S. Lica, D. F. Iancu, M. Tomoroga, **M. Gurbină**, D. Lascu, „A New Single Active Switch Quadratic Buck Converter”, in (2015) *International Review of Automatic Control (IREACO)*, vol. 8 / 5, pp. 346 - 353, ISSN: 19746059, DOI: 10.15866/ireaco.v8i5.7203, CSA, EBSCO, SCOPUS, BDI

4. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI (cu specificarea BDI)

4.1. **M. Gurbina**, D. Lascu, "Analysis of one cycle controlled SEPIC converters", *Applied Computational Intelligence and Informatics (SACI)*, 2012 7th edition, DOI: 10.1109/SAI.2012.6250040, Publication Year: 2012 , Page(s): 415 – 420, BDI

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AVIZAT, Conducător științific Prof.univ.dr.ing. Dan Lascu 	ÎNTOCMIT, Student doctorand ing.Mircea Gurbină 
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