

Lista de lucrări

Teza doctorat: Cercetări privind dezvoltarea tehnicilor de comandă incrementală și aplicații, 2017, conducător științific: prof.univ.dr.ing. Radu Munteanu, Universitatea Tehnică din Cluj Napoca, calificativ: foarte bine.

Articole în reviste cotate ISI, cu factor de impact:

1. F. Hrebenciuc, D. Moga, D. Petreus, **A. Z. Barabas**, and R. Moga, "Combined analytical and numerical approach to study coil arrays for contactless charging of batteries in active transponders," Electronics and Electrical Engineering, 2012, 123(7): 37-42, DOI: 10.5755/j01.eee.123.7.2372, ISSN 1392-1215, FI: 1.128.
<https://www.eejournal.ktu.lt/index.php/elt/article/view/2372>
2. F. Hrebenciuc, N. Stroia, D. Moga, and **A. Z. Barabas**, "A low cost approach to large smart shelf setups," Advances in Electrical and Computer Engineering, 2011, 11/4: 117 – 122, DOI: 10.4316/AECE. 2011.04019, ISSN 1582-7445, FI: 1.221.
<https://aece.ro/abstractplus.php?year=2011&number=4&article=19>

Articole în reviste indexate BDI:

3. **A. Z. Barabas**, A. Morar, "Five Phase Hybrid Stepping Motor Microstepping Control," Scientific Bulletin of Petru Maior University of Targu Mures, Volume 10, no 2, 2013, ISSN: 1841-9267. <http://scientificbulletin.upm.ro/?pag=vols/2013-2>
4. N. Stroia, D. Moga, and **A. Z. Barabas**, "Web based monitoring of solar power systems," in 2nd IFAC Workshop Convergence of Information Technologies and Control Methods with Power Systems (ICPS'13), vol. 46/6, (ClujNapoca), pp. 131–136, 2013. DOI: 10.3182/20130522-3-RO-4035.00046. <https://www.sciencedirect.com/journal/ifac-proceedings-volumes/vol/46/issue/6>
5. **A. Z. Barabas**, A. Morar, "High performance microstepping driver system based on five-phase stepper motor (sine wave drive)," The 7th International Conference Interdisciplinarity in Engineering, vol 12, pp. 90-97, 2013.
<https://www.sciencedirect.com/journal/procedia-technology/vol/12/suppl/C>
6. **A. Z. Barabas**, A. Morar, "Five phase stepping motor drive with dedicated ic," The 6th edition of the Interdisciplinarity in Engineering International Conference Petru Maior University of Targu Mures, ISSN: 2285 - 0945 pp. 305-3011, 2012. <http://inter-eng.upm.ro/2012/proceedings.html>
7. A. Morar, **A. Z. Barabas**, "One channel microstepping motor driver board," The 6th edition of the Interdisciplinarity in Engineering International Conference Petru Maior University

of Targu Mures, ISSN 2285 – 0945, pp. 297-304, 2012. <http://inter-eng.upm.ro/2012/proceedings.html>

8. R. Munteanu, D. Moga, D. Petreus, N. Stroia, **Z. Barabas** and F. Hrebenciuc, "Diagnosis of industrial systems driven by electrical machines with a low cost platform," 8th IEEE Symposium on Diagnostics for Electrical Machines, Power Electronics & Drives, 2011, pp. 535-541, DOI: 10.1109/DEMPED.2011.6063675. <https://ieeexplore.ieee.org/abstract/document/6063675>
9. **Z. A. Barabas**, A. Morar, "Interface to quadrature incremental encoder," The 5th Edition of the Interdisciplinarity in Engineering International Conference Petru Maior University of Targu Mures, pp: 77-81, 2011. <https://inter-eng.umfst.ro/2011/proceedings.html>
10. **Z. A. Barabas**, A. Morar, "Unipolar driver for stepper motor control," The 5th Edition of the Interdisciplinarity in Engineering International Conference Petru Maior University of Targu Mures, pp: 99-104, 2011. <https://inter-eng.umfst.ro/2011/proceedings.html>
11. **Z. A. Barabas**, A. Morar, "Electronic circuit for incremental translators," Scientific Bulletin of the Petru Maior University of Targu Mures, Vol. 8/2: 7-10, 2011. <http://scientificbulletin.upm.ro/?pag=vols/2011-2>
12. **Z. A. Barabas**, A. Morar, "DC motor speed and position control system connects directly to microcomputer chips" Scientific Bulletin of the Petru Maior University of Targu Mures, Vol. 8/1: 5-11, 2011. <http://scientificbulletin.upm.ro/?pag=vols/2011-1>
13. **Z. A. Barabas**, A. Morar, "Bipolar hybrid stepper motor control and drive with dedicated IC's I297+I298," Scientific Bulletin of the Petru Maior University of Targu Mures, Vol. 7/2: 18-24, 2010. <http://scientificbulletin.upm.ro/?pag=vols/2010-2>
14. **Z. A. Barabas**, A. Morar, "Microstepping test board with LMD18245 specialized circuit for bipolar stepper motor," The 4th edition of the Interdisciplinarity in Engineering, International Conference Petru Maior University of Targu Mures, Vol. 7/2: 25-29, 2009. <https://inter-eng.umfst.ro/2009/accepted-papers.html>
15. **Z. A. Barabas**, A. Morar, "Digital speed measuring interface for low speed drive systems," Interdisciplinarity in Engineering, Scientific International Conference, Targu Mures, 2007. pp: IV-12-1 - IV-12-6 <http://www.inter-eng.umfst.ro/2007/Intering/Contents.html>

Suport de curs electronic:

16. **A. Z. Barabas**, Echipamente Electrice Medicale – Note de Curs, 2021, (126 pagini).