

A N E X A 4 . 2

Nume Prenume: PURCARU Dorina-Mioara
Gradul didactic: Profesor
Instituția unde este titular: Universitatea din Craiova
Facultatea: Automatică, Calculatoare și Electronică
Departamentul: Automatică și Electronică

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Algoritmi pentru recunoașterea formelor prin rețele senzoriale tactile, Universitatea din Craiova, domeniul Sisteme automate, conducător științific: prof. dr. ing. Mircea Ivănescu, susținere publică în 15 aprilie 1997, Diplomă de doctor: Seria P, Nr. 0002344 / 44/ 5.07.1997, Ordinul M.I. nr. 3991/02.06.1997.

B. Cărți și capitole în cărți publicate în ultimii 10 ani (2011 – 2020)

1. **Purcaru D.**, 2011, *Electronică. Note de curs*, Editura Sitech, Craiova, ISBN: 978-606-11-1950-9.
2. **Purcaru D.**, 2012, *Instrumentație, senzori și sisteme de măsurare. Lucrări practice*, Editura Universitaria, Craiova, ISBN: 978-606-14-0515-2.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**a) Articole publicate în reviste (2011 – 2020)**

1. **Purcaru D.**, Gordan C., Purcaru A., 2011, *Application of the I-7000 Remote Controllable Data Acquisition Modules in a Measurement System with Inductive Sensors*, Journal of Electrical and Electronics Engineering, Vol. 4, Nr. 1, 2011, pp. 203–206, ISSN 1844–60.
[SCOPUS]
2. **Purcaru D.**, Purcaru A., 2011, *Method for Synchronized Sampling of Analog Inputs Recommended for High Speed Data Acquisition Systems*, Journal of Electrical and Electronics Engineering, Vol. 4, Nr. 1, 2011, pp. 207–210, ISSN 1844–60.
[SCOPUS]
3. Reiz Romulus, **Purcaru Dorina**, Gordan Cornelia, 2011, *Short-Time Fourier Transform Used to Estimate Instantaneous Frequency of Nonstationary Signals*, Journal of Electrical and Electronics Engineering, Vol. 4, Nr. 2, October 2011, pp. 95–98, ISSN 1844–6035.
[SCOPUS]
4. Nicolae Ileana-Diana, Nicolae Petre-Marian, **Purcaru Dorina-Mioara**, 2011, *Computational Issues Related to the Discrete Wavelet Analysis of Power Systems*, Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics, Vol. 8 (35), No.2, 2011, pp. 25-30, ISSN: 1841-0626.
[Copernicus, Inspec]
5. **Purcaru D.**, Purcaru A., Gordan C., 2012, *Interface with Simultaneous Sampling of Analog Inputs for Power Quality Measurement: Testing Programs and Experimental Results*, Annals of the

- University of Craiova, Series Automation, Computers, Electronics and Mechatronics, Vol. 9 (36), No.2, 2012, pp. 33-42.
[Copernicus, Inspec]
6. Gordan Ioan Mircea, Gordan Cornelia Emilia, **Purcaru Dorina-Mioara**, 2013, *Modern Method Used for Solar Radiation Intensity Measurement and Data Processing*, Nonconventional Technologies Review, No. 1, April 2013, pp. 39-44, ISSN: 1454-3087.
[Index Copernicus, Google Academic]
 7. **Purcaru Dorina**, Gordan Cornelia, Purcaru Ion, 2013, *An Application of the PC104 Interface with Synchronized Sampling of Analog Inputs in Energetic Systems*, Journal of Electrical and Electronics Engineering, Vol. 6, No. 1, May 2013, pp. 121-124.
[SCOPUS]
 8. **Purcaru Dorina**, Gordan Cornelia, Reiz Romulus, Purcaru Anca, 2013, *PC104 Interface Recommended for High Speed Data Acquisition Systems*, International Journal: Applied Mechanics and Materials , Vol. 325-326 (2013) - Manufacturing Engineering and Process II, pp. 926-929, Edited by Bale V. Reddy, Trans Tech Publication Ltd – Switzerland, ISSN: 1662-7482.
[SCOPUS]
 9. **Purcaru Dorina-Mioara**, Gordan Ioan Mircea, Purcaru Anca, 2014, *Practical Aspects Concerning the Digital Implementation of Complex Protection Functions for Hydrogenerators*, Journal of Electrical and Electronics Engineering, Vol. 7, No. 1, May 2014, ISSN: 1844-6035, pp. 141-146.
[SCOPUS]
 10. Gordan Ioan Mircea, **Purcaru Dorina Mioara**, Vancea Cristian, 2014, *Contributions to Optimize the Operation of Thermoelectric Conversion Equipment*, Journal of Electrical and Electronics Engineering, Vol. 7, No. 1, May 2014, ISSN: 1844-6035, pp. 53-56.
[SCOPUS]
 11. Purcaru Anca, **Purcaru Dorina-Mioara**, Gordan Ioan-Mircea, 2015, *Data Acquisition and Processing Method Adequate for High Speed Transient Electrical Events*, Applied Mechanics and Materials Journal, Vol.772 (2015) – Advanced Research in Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering and Bioengineering, pp. 541-545, Edited by Adrian Olaru, Trans Tech Publications, Switzerland.
[Elsevier, Google Academic]
 12. **Purcaru Dorina**, Purcaru Anca, 2015, *Contributions to Hydrogenerator Protection when its Running in the Motor Regime is Detected*, Applied Mechanics and Materials Journal, Vol. 811 (2015) – Advanced Research in Aerospace Engineering, Robotics, Manufacturing Systems, Mechanical Engineering and Biomedicine, pp. 241-245, Edited by Adrian Olaru, Trans Tech Publications, Switzerland, ISSN: 1662-7482.
[Inspec, Index Copernicus, EBSCO, Google Academic]
 13. **Purcaru Dorina**, Gordan Ioan Mircea, Purcaru Anca, 2015, *Implementation of Hydrogenerator Overcurrent Protection with Minimum Voltage Blockage Using Embedded Systems*, Journal of Electrical and Electronics Engineering, Vol. 8, No. 2, Oct. 2015, P-ISSN:1844-6035, E-ISSN:2067-2128, CD-ISSN: 2067–211X, pp. 29-34.
[SCOPUS]
 14. Dina Livia-Andreea, Nicolae Ileana-Diana, Nicolae Petre-Marian, **Purcaru Dorina-Mioara**, 2016, *On the Immunity of Data Acquisition Systems Used in Power Systems*, Annals of the University of Craiova, Electrical Engineering Series, ISSN 1842-4805, No. 40, 2016, pp. 147-152.
[Index Copernicus]
 15. **Purcaru Dorina**, Purcaru Anca, 2016, *Experimental Systems for Acquiring Technical Knowledge and Practical Skills on Electronic Measurements*, Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics, Vol. 13 (40), No. 1, 2016, pp. 5-14.
[Copernicus, Inspec]
 16. **Purcaru Dorina**, Gordan Cornelia, Purcaru Ion, 2020, *Contributions to Synchronous Generation of Sinusoidal Voltages with Controllable Phase Shifts*, Journal of Electrical and Electronics Engineering, Vol. 13, Nr. 2, October 2020, pp. 77–80, ISSN 1844–6035.

[SCOPUS]

17. **Purcaru Dorina**, Gordan Cornelia, Purcaru Ion, 2020, *Simulating Various Operating Regimes for Electric Power Plants. Hardware Architecture for Generating Specific Voltage and Current Signals*, Journal of Electrical and Electronics Engineering, Vol. 13, Nr. 2, October 2020, pp. 81–86, ISSN 1844–6035.

[SCOPUS]

b) Lucrări publicate în volumele conferințelor (2011 – 2020)

18. Nicolae P.M., **Purcaru D.M.**, Nicolae I.D., Mihai G., Duță M., 2011, *On EM Disturbances over Digital Equipment Used for Monitoring and Events Recording in a Power System*, 14-19 Aug. 2011, Long Beach, SUA, IEEE International Symposium on Electromagnetic Compatibility (EMC 2011), pp. 465 – 470, ISSN: 2158-110X.
[ISI Web of Science, IEEE Xplore, Scopus]
19. **Purcaru Dorina-Mioara**, Purcaru Ion, Gordan Ioan Mircea, 2013, *Equipment for Monitoring and Analysis of Transient Electrical Events in Power Systems*, 17th International Conference on System Theory, Control and Computing (ICSTCC), October 11-13, 2013, Sinaia - Romania, Proceedings - pp. 440-444 (Editors: Emil Petre, Marius Brezovan, ISBN 978-1-4799-2228-4, ISBN 978-1-4799-2227-7, IEEE Catalog Number CFP1336P-CDR).
[ISI Web of Science, IEEE Xplore, Scopus]
20. **Purcaru Dorina**, Purcaru Anca, 2013, *PC104 Interface Recommended for High Speed Data Acquisition Systems*, International Journal: Applied Mechanics and Materials, Vol. 332 (2013), pp. 119-123, Trans Tech Publication, Switzerland, – Selected, Peer reviewed papers from the “8th IEEE/IACSIT/SCIEI International Conference on Optimization of the Intelligent Systems and Their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Neurorehabilitation” (OPTIROB-2013), 20-23 June 2013, Mamaia, Romania.
[ISI Web of Science, Scopus]
21. **Purcaru Dorina-Mioara**, Purcaru Ion, Gordan Ioan Mircea, 2014, *Hydrogenerator Loss of Excitation Protection Function Implemented with a Digital Equipment Organized Around a PC/104 Central Unit*, 18th International Conference on System Theory, Control and Computing (ICSTCC), October 17-19, 2014, Sinaia – Romania, Proceedings – pp. 591-596, ISBN 978-1-4799-4602-0.
[IEEE Xplore, Scopus]
22. **Purcaru Dorina-Mioara**, Purcaru Ion, Popescu Dan, 2015, *Results Obtained in Monitoring Transient Electrical Events from Hydropower Plants*, The 16th IEEE International Carpathian Control Conference (ICCC), Szilvasvarad, Hungary, 27-30 May, 2015, ISI Proceedings – pp.414-419, Editors - Ivo Petráš, Igor Podlubny, Ján Kačur, József Vásárhelyi, IEEE Catalog Number: CFP1542L-CDR, ISBN: 978-1-4799-7369-9.
[ISI Web of Science, IEEE Xplore, Scopus]
23. **Purcaru Dorina**, Purcaru Ion, 2016, *Signal Processing and Generating Unit for Power System Simulator*, 20th International Conference on System Theory, Control and Computing (ICSTCC), October 13-15, 2016, Sinaia – Romania, Editors: Petre Emil, Brezovan Marius, Proceedings – pp. 766-770, ISBN 978-1-5090-2720-0, IEEE Catalog Number CFP1636P-ART.
[ISI Web of Science, IEEE Xplore, Scopus]
24. **Purcaru Dorina**, Purcaru Anca, Rădulescu Virginia, 2017, *Temperature Measurement and Control System for Engineering Education*, The 18th IEEE International Carpathian Control Conference (ICCC'2017), Sinaia, Romania, 28-31 May, 2017, Proceedings – pp. 258 - 262, Editors - Barbu L., Roman M., Popescu E., Popescu D., Sendrescu D.
[ISI Web of Science, IEEE Xplore, Scopus]
25. **Purcaru Dorina**, Gordan Ioan Mircea, Purcaru Anca, 2017, *Study, Testing and Application of Proximity Sensors for Experimental Training on Measurement Systems*, The 18th IEEE International

- Carpathian Control Conference (ICCC'2017), Sinaia, Romania, 28-31 May, 2017, Proceedings – pp. 263-266, Editors - Barbulescu L., Roman M., Popescu E., Popescu D., Sendrescu D.
[ISI Web of Science, IEEE Xplore, Scopus]
- 26. Purcaru Dorina**, Gordan Ioan Mircea, Purcaru Anca, 2017, *Testing and Monitoring Ultrasonic Sensors for Engineering Education on Electronic Measurements*, 2017 14th International Conference on Engineering of Modern Electric Systems – EMES, Oradea, Romania, June 1-2, 2017, Proceedings – pp. 29-32.
[ISI Web of Science, IEEE Xplore, Scopus]
- 27. Setel Aurel, Purcaru Dorina**, Gordan Cornelia Emilia, Antal Cornel, Gordan Ioan Mircea, 2017, *Aspects about the conversion of geothermal energy into electricity in the North West of Romania*, 2017 14th International Conference on Engineering of Modern Electric Systems – EMES, Oradea, Romania, June 1-2, 2017, Proceedings – pp.103-108.
[ISI Web of Science, IEEE Xplore, Scopus]
- 28. Purcaru Anca, Purcaru Dorina**, Gordan Ioan-Mircea, Nicolae Ileana-Diana, 2017, *System for Remote Control and Monitoring Using Optical Fiber and GSM Communication for Loadbreak Cutouts*, The 7th International Conference on Modern Power Systems (MPS 2017), Cluj-Napoca, Romania, June 6-9, 2017, Proceedings - pp. 1-5.
[ISI Web of Science, IEEE Xplore, Scopus]
- 29. Purcaru Anca, Purcaru Dorina**, Gordan Ioan-Mircea, Nicolae Marian-Ștefan, 2018, *Electrical Signal Data Acquisition and Recording Customized System, with High Sampling Rate, for Data Analysis Optimization of Three-Phase Power Supply Consumers*, 14th International Conference on Applied and Theoretical Electricity (ICATE), October 4-6 2018, Craiova, Romania, Proceedings - pp. 1-6.
[ISI Web of Science, IEEE Xplore]
- 30. Scărlătescu Lucian Cristian, Nicolae Marian Ștefan, Nicolae Petre Marian, Nicolae Ileana Diana, Purcaru Dorina Mioara**, 2019, *Computational Aspects Concerned with the Optimized Use of Wavelet Package Trees*, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN), Proceedings - pp.1-6.
[IEEE Xplore]
- 31. Gordan Mircea, Purcaru Dorina Mioara**, Codrean Marius, Novac Mihaela Cornelia, Novac Ovidiu Constantin, Codrean Mihaela, 2019, *Aspects Regarding the Numerical Simulation of the Inductive Heating, Process, Using the FLUX2D and FEMM Software*, 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), June 27 – June 29, 2019, Pitesti, Romania.
[ISI Web of Science, IEEE Xplore]

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

Data:

10.02.2021

Semnătura: