

## LISTA DE LUCRĂRI

### A) Teza de doctorat

*Monitoring and Data Acquisition Systems for Industrial Environment, with Local or Remote Network Communication*, Universitatea din Craiova, Domeniul *Ingineria Sistemelor*, conducător științific: prof. dr. ing. Dan Selișteanu, susținere publică pe 9.10.2023, Ordinul M.E. nr. 3980 / 11.03.2024.

### B) Brevete de invenție

1. Brevet de invenție nr. 133444, eliberat de *Oficiul de Stat pentru Invenții și Mărci*, pe 30.12.2020
  - Titular: *Institutul Național de Cercetare-Dezvoltare și Încercări pentru Electrotehnică (ICMET)*, Craiova
  - Titlul invenției: *Metodă și sistem de monitorizare a săgeții cablurilor liniilor electrice aeriene*
  - Inventatori: Sacerdoțianu Dumitru, Nicola Marcel, Vintilă Adrian, Nicola Claudiu, Hurezeanu Iulian, Lăzărescu Florica, Popescu Paul, Purcaru Ion, **Albița Anca**

### C) Cărți publicate

1. Sacerdoțianu Dumitru, Nicola Marcel, Pătru Ion, **Purcaru Anca**, 2017, *Contribuții la perfecționarea echipamentelor de monitorizare și diagnosticare a transformatoarelor electrice de putere*, Colecția *Inginerie Electrică* nr. 52, Editura Sitech (acreditată CNCSIS), Craiova, ISBN: 978-606-11-5995-6.
2. **Albița Anca**, 2024, *Research and Industrial Applications of Monitoring and Data Acquisition Systems with Local or Remote Network Communication*, Editura Sitech (acreditată CNCSIS), Craiova, ISBN: 978-606-11-8602-0.

### D) Articole/studii publicate în reviste de specialitate

#### D1) Articole în reviste de specialitate indexate ISI

1. **Albița Anca**, Selișteanu Dan, 2022, *A Configurable Monitoring, Testing, and Diagnosis System for Electric Power Plants*, *Sensors* 2022 (Q2-ISI Journal, Impact Factor: 3.9), 22(15), Art. No. 5618, pp. 1-28, eISSN:1424-8220.  
[ISI Web of Science], WOS:000839677600001  
[SCOPUS], DOI:10.3390/s22155618
2. **Albița Anca**, Selișteanu Dan, 2023, *A Compact IIoT System for Remote Monitoring and Control of a Micro Hydropower Plant*, *Sensors* 2023 (Q2-ISI Journal, Impact Factor: 3.9), 23(4), Art. No. 1784, pp. 1-24, eISSN:1424-8220.  
[ISI Web of Science], WOS:000940484400001  
[SCOPUS], DOI:10.3390/s23041784

#### D2) Articole publicate în reviste de specialitate indexate BDI

1. Purcaru Dorina, Gordan Cornelia, **Purcaru Anca**, 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.  
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2. Purcaru Dorina, **Purcaru Anca**, 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. Purcaru Dorina, **Purcaru Anca**, Gordan Cornelia, 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, ISSN: 1841-0626.

- [Copernicus, Inspec, Google Academic]
4. 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, ISBN-13: 978-3-03785-707-6.  
[SCOPUS – Book Series], DOI:10.4028/www.scientific.net/AMM.325-326.926
  5. 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.  
P-ISSN: 1844-6035; E-ISSN: 2067-2128; CD-ISSN: 2067–211X.  
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  6. **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, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03835-502-1.  
[Inspec, Index Copernicus], DOI:10.4028/www.scientific.net/AMM.772.561
  7. 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, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03835-662-2.  
[Inspec, Index Copernicus], DOI:10.4028/www.scientific.net/AMM.811.241
  8. 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.  
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  9. 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, ISSN: 1841-0626, Vol. 13 (40), No.1, 2016, pp. 5-14.  
[Copernicus, Inspec, Google Academic]
  10. Scărlătescu Lucian Cristian, Nicolae Ileana Diana, Nicolae Petre Marian, Nicolae Marian Ștefan, **Purcaru Anca**, 2019, *Harmonics Based Clustering Patterns Featured by the Final Nodes of a WPT tree*, Annals of the University of Craiova, Electrical Engineering Series, No. 43, Issue 1, 2019, pp. 42-49, ISSN 1842-4805.  
[Index Copernicus]
  11. **Albița Anca**, Selișteanu Dan, Mămuleanu Mădălin, 2022, *Monitoring, Recording and Diagnosis Designed Hardware Structure for a Data Acquisition Module Running in Electro-energetic Environment*, Journal of Electrical and Electronics Engineering, Vol. 15, No. 1, May 2022, P-ISSN:1844-6035, E-ISSN:2067-2128, CD-ISSN: 2067–211X, pp. 5-8.  
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#### **E) Lucrări publicate în volume ale unor conferințe internaționale indexate ISI / BDI**

1. Purcaru Dorina, **Purcaru Anca**, Rusu Claudiu, Căpățînă Marius, 2010, *Electronic Equipment for Monitoring and Recording Analog and Digital Inputs*, Proceedings of the 14th International Conference on System Theory and Control (Joint conference of SINTES14, SACCS10, SIMSIS14), October 17-19, 2010, Sinaia, România, pp. 421-426, Editor - Emil Petre, ISSN 2068-0465.  
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2. Purcaru Dorina, **Purcaru Anca**, Gordan Cornelia, Reiz Romulus, 2010, *Robust and Low Cost PC104 Interface with Synchronized Sampling of Analog Inputs: Hardware Solution*, International Conference on Mechanical Engineering, Robotics and Aerospace (ICMERA 2010), Proceedings – IEEE Catalog Number: CFP1057L-PRT, ISBN: 978-1-4244-8867-4; pp. 250-254. Publisher: Institute of Electrical and Electronics Engineers, Inc.  
[Google Academic]
3. 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, ISBN-13: 978-3-03785-733-5, 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, România.

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[SCOPUS], DOI: 10.4028/www.scientific.net/AMM.332.119

4. 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, România, 28-31 May, 2017, Proceedings – pp. 258 - 262, Editors - Bărbulescu L., Roman M., Popescu E., Popescu D., Şendrescu D., ISBN: 978-150904862-5.

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5. 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, România, 28-31 May, 2017, Proceedings – pp. 263-266, ISBN: 978-150904862-5.

[ISI Web of Science], WOS:000426954400049

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6. Purcaru Dorina, Gordan Ioan Mircea, **Purcaru Anca**, 2017, *Testing and Monitoring Ultrasonic Sensors for Engineering Education on Electronic Measurements*, 2017 14<sup>th</sup> International Conference on Engineering of Modern Electric Systems – EMES, Oradea, România, June 1-2, 2017, Proceedings – pp. 29-32, Electronic ISBN: 978-1-5090-6073-3.

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7. **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, România, June 6-9, 2017, Proceedings - pp. 1-5, ISBN: 978-150906565-3.

[ISI Web of Science], WOS:000428462600044

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8. **Purcaru Anca**, Purcaru Dorina, Gordan Ioan-Mircea, Nicolae Marian-Ştefan, 2018, *Electrical Signal Data Acquisition and Recording Customized System, with High Sampling Rate, for Data Analysis Optimization of Three-Phase Power Supply Consumers*, 2018 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, România, October 4-6, 2018, Proceedings - pp.1-6, Publisher: IEEE, DOI: 10.1109/ICATE.2018.8551390.

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9. Sacerdoţianu Dumitru, Nicola Marcel, Vintilă Adrian, Nicola Claudiu, Hurezeanu Iulian, Lăzărescu Florica, Popescu Paul, Purcaru Ion, **Albiţa Anca**, 2019, *Contributions to monitoring the condition of substations*, The 8th International Conference on Modern Power Systems (MPS 2019), Cluj-Napoca, România, May 21-23, 2019, IEEE Catalog Number: CFP19MPR-POD, ISBN: 978-1-7281-0751-6, Publisher: IEEE.

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10. **Albiţa Anca**, Selişteanu Dan, 2020, *Measurement and Display of Generated Signal Parameters: Power System Simulator and Software Application*, 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), October 8-10, 2020, Sinaia, România, Proceedings - pp. 679-684, Publisher: IEEE.

[ISI Web of Science], WOS:0006465829001120

[SCOPUS], DOI:10.1109/ICSTCC50638.2020.9259676

11. Nicolae Ileana-Diana, Nicolae Petre-Marian, Popescu Paul, **Purcaru Anca**, 2020, *Comparative study of wavelet based techniques for electromagnetic noise evaluation and removal*, International Conference on Applied Mathematics and Numerical Methods (ICAMNM 2020) – Workshop on Industrial Mathematics and Computer Science, pp. 1-10, October 31, 2020, Craiova, România.

[ISI Web of Science], WOS:000733624000011

DOI:10.1051/itmconf/20203402005

12. Nicolae Ileana-Diana, Nicolae Petre-Marian, **Purcaru (Albița) Anca**, 2020, *On Computing RMS Indices through Wavelet Decompositions by Using a Tree with 7 Levels*, International Symposium on Fundamentals of Electrical Engineering (ISFEE 2020), Bucharest, România, November 5–7, 2020.  
[\[ISI Web of Science\]](#), WOS:000812321500025  
[\[SCOPUS\]](#), DOI:10.1109/ISFEE51261.2020.9756155
13. **Albița Anca**, Selișteanu Dan, Mămuleanu Mădălin, 2021, *Using MQTT Protocol for Remote Monitoring of Low and Medium Power Electrical Network*, 16th International Conference on Engineering of Modern Electric Systems (EMES-2021), Oradea, România, June 10-11, 2021, Electronic ISBN: 978-1-6654-4995-3, Publisher: IEEE.  
[\[ISI Web of Science\]](#), WOS:000855847300001  
[\[SCOPUS\]](#), DOI:10.1109/EMES52337.2021.9484133
14. Sacerdoțianu Dumitru, Nicola Marcel, Hurezeanu Iulian, Lăzărescu Florica, Roman Despina, **Albița Anca**, Purcaru Dorina, 2021, *Contributions on Monitoring the Condition and the Protection of Insulated Bushings, Pertaining to Transformer Units*, The 9th International Conference on Modern Power Systems (MPS 2021), Cluj-Napoca, România, June 16-17, 2021, Electronic ISBN: 978-1-6654-3382-2, Publisher: IEEE.  
[\[ISI Web of Science\]](#), WOS:000941563300091  
[\[SCOPUS\]](#), DOI:10.1109/MPS52805.2021.9492693
15. Nicolae Ileana Diana, Nicolae Petre-Marian, Gheorghe Ilie, Cîrstea Daniel, **Purcaru (Albița) Anca**, 2022, *Estimating Inductances of Coils with Ferromagnetic Cores with a Data Acquisition System in a Noisy Environment*, 2022 IEEE 20th International Power Electronics and Motion Control Conference, September 25-29, 2022 in Brașov, România.  
[\[IEEE Xplore, SCOPUS\]](#), DOI:10.1109/PEMC51159.2022.9962924
16. Mămuleanu Mădălin, Ionete Cosmin, **Albița Anca**, Selișteanu Dan, 2022, *Distributed Deep Learning Model for Predicting the Risk of Diabetes, Trained on Imbalanced Dataset*, 2022 23rd International Carpathian Control Conference (ICCC), Sinaia, România, 29 May 2022 - 01 June, 2022, Electronic ISBN:978-1-6654-6636-3, pp. 315-318, Publisher: IEEE.  
[\[ISI Web of Science\]](#), WOS:000925203600056  
[\[SCOPUS\]](#), DOI:10.1109/ICCC54292.2022.9805989

#### **F) Lucrări publicate în volume ale unor conferințe naționale**

1. Mircescu Dan, Runcan Viorel, Vidrean Petre, **Albița Anca**, Purcaru Ion, 2022, *Oscilopertubograful – particularități și utilizări în hidroenergetică*, Conferința Națională și Expoziția de Energetică, Sinaia, 26-28 oct. 2022.  
[http://www.sier.ro/CNEE\\_2022.html](http://www.sier.ro/CNEE_2022.html)

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