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Gradul didactic: șef lucrări

Instituția unde este titular: Universitatea din Oradea

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Cercetări privind creșterea randamentului energetic în cuptoarele cu microunde cu puteri variind între 100 – 1000W; contribuții personale la realizarea instalației-pilot”, Universitatea din Oradea, 2009

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Mircea-Petru Ursu, Cercetări și aplicații neconvenționale din domeniul microundelor, Editura Universității din Oradea, 2012, ISBN 978-606-10-0893-3;
2. Mircea-Petru Ursu, Daniela E.Popescu, Electronică Digitală 2 - Ediția a II-a revizuită și adăugită, Editura Universității din Oradea, 2025, ISBN 978-606-10-2402-5;
3. Mircea-Petru Ursu, Daniela E.Popescu, Electronică Digitală 2, Editura Universității din Oradea, 2021, ISBN 978-606-10-2147-5;
4. Mircea-Petru Ursu, Daniela E.Popescu, Structura și Organizarea Calculatoarelor - îndrumător de laborator, Editura Universității din Oradea, 2021, ISBN 978-606-10-2148-2;
5. Gianina Adela Gabor, Mircea-Petru Ursu, Ghid de comunicare în inginerie, Editura Universității din Oradea, 2017, ISBN 978-606-10-1931-1;
6. Daniela E. Popescu, Mircea-Petru Ursu, Arhitectura sistemelor de calcul (1) – îndrumător de laborator, Editura Universității din Oradea, 2017, ISBN 978-606-10-1897-0

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Ursu M.P., Digital Electronic Modules for Command and Control of Miniature Railway Systems, 2021 16th International Conference on Engineering of Modern Electric Systems (EMES), DOI: 10.1109/EMES52337.2021.9484138, Electronic ISBN:978-1-6654-4995-3, <https://ieeexplore.ieee.org/document/9484138>, WOS:000855847300052
2. Pop A., Blaga F.S., Ursu M.P., Vesselenyi T., Bungău C., Usage of Coloured Petri Nets for the Performance Evaluation of the Metallographic Samples Analysis Automated Systems, IOP Conference Series: Materials Science and Engineering, Volume 916, ModTech International Conference - Modern Technologies in Industrial Engineering VIII 24-27 June 2020, Constanta, Romania, <https://doi.org/10.1088/1757-899X/916/1/012088>, WOS:000625330000088, <https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012088>
3. Pop A., Blaga F.S., Ursu M.P., Bungău C., Hule V., Modeling a Manufacturing System by Using XML - Petri Nets Technology, IOP Conference Series: Materials Science and Engineering, Volume 916, ModTech International Conference - Modern Technologies in Industrial Engineering VIII 24-27 June 2020, Constanta, Romania, <https://doi.org/10.1088/1757-899X/916/1/012089>, WOS:000625330000089, <https://iopscience.iop.org/article/10.1088/1757-899X/916/1/012089>
4. Novac O.C., Mureșan I.I., Novac M.C., Ursu M.P., Oproescu M., Dindelegan C.M., Development of a Weather Mobile Application in Android Studio Operating System, 11th INTERNATIONAL CONFERENCE on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE ECAI 2019, Pitești, June 27–29, 2019, DOI: 10.1109/ECAI46879.2019.9042040, <https://ieeexplore.ieee.org/document/9042040>, WOS:000569985400080

5. Blaga F.S., Vesselenyi T., Ursu M.P., Hule V., Stanasel I., Evaluation of the Performance of an Automated Metallographic Samples Analysis System by means of Petri Nets Modelling, Modern Technologies in Industrial Engineering VII, (ModTech2019 Iași), IOP Conf. Series: Materials Science and Engineering 591 (2019) 012041, doi:10.1088/1757-899X/591/1/012041 <https://iopscience.iop.org/article/10.1088/1757-899X/591/1/012041/pdf>, WOS:000562929900041
6. Ursu M.P., Novac O.C., Oproescu M., Bujdosó G., Hathazi F.I., Comparative Study of the Analog and Digital Operation for Miniature Railway Systems, The 15th International Conference on Engineering of Modern Electric Systems ICEMES 2019 Oradea, pp. 137-140, ISBN:978-1-7281-0773-8, WOS:000503434500035, DOI: 10.1109/EMES.2019.8795182 <https://ieeexplore.ieee.org/document/8795182>
7. Ursu M.P., Digital sensor and controller for two-rail electrically driven vehicles, Conference ModTech2018 Constanța, IOP Conf. Series: Materials Science and Engineering 400 (2018) 052010, WOS:000461147400142 doi:10.1088/1757-899X/400/5/052010, <http://iopscience.iop.org/article/10.1088/1757-899X/400/5/052010/pdf>
8. Ursu M.P., Condruz D.A. Digital Intelligent Booster For DCC Miniature Train Networks, Conference ModTech2017 Sibiu, IOP Conf. Series: Materials Science and Engineering 227 (2017) 012133 doi:10.1088/1757-899X/227/1/012133 WOS:000409221600133 <http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012133/pdf>
9. Ursu M.P., Buidos T., Digital Device for Timing and Power Level Setting for Microwave Applications, Conference ModTech2016 Iași, IOP Conf. Series: Materials Science and Engineering 145 (2016) 052015 doi:10.1088/1757-899X/145/5/052015 WOS:000396437600103 <http://iopscience.iop.org/article/10.1088/1757-899X/145/5/052015/pdf>
10. Ursu M.P., Buidos T., Albert G., Design and Realization of Light Modules for Miniature Model Passenger Coaches, Conference ModTech2015 Mamaia, IOP Conf. Series: Materials Science and Engineering 95 (2015) 012050 doi:10.1088/1757-899X/95/1/012050 WOS:000365128900050 <http://iopscience.iop.org/article/10.1088/1757-899X/95/1/012050/pdf>
11. Mircea-Petru Ursu, Digital Decoder from 4-Bit Binary Code to 7-Segment LED Display, 2025 18th International Conference on Engineering of Modern Electric Systems, EMES 2025, DOI: 10.1109/EMES65692.2025.11045628, <https://ieeexplore.ieee.org/document/11045628>
12. Mircea-Petru Ursu, Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Digital Decoder from 16-Bit Binary Code to 7-Segment Quad LED Display, Proceedings of the 2025 17th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2025, DOI: 10.1109/ECAI65401.2025.11095500, <https://ieeexplore.ieee.org/document/11095500>
13. Ovidiu-Constantin Novac, Cornelia-Mihaela Novac, Mihai Costar, Mihai Oproescu, Mircea-Petru Ursu, Gyongyi Bujdosó, Comparison of Frontend Frameworks Angular Vs. Blazor, 2025 18th International Conference on Engineering of Modern Electric Systems, EMES 2025, DOI: 10.1109/EMES65692.2025.11045632, <https://ieeexplore.ieee.org/document/11045632>
14. Mircea-Petru URSU, Dragoș-Adrian CONDRUZ, OLED Applications for Digital Model Railways Systems, International Conference ModTech2024 Kuala Lumpur, Malaysia, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XVI, No. 3 / 2024, <https://doi.org/10.54684/ijmmt.2024.16.3.116>, https://ijmmt.ro/download-paper/vol16no32024/14_Mircea-Petru%20Ursu.pdf
15. Mircea-Petru URSU, Dragoș-Adrian CONDRUZ, Digital Traction Force Meter for Model Trains, International Conference ModTech2023 Bucharest, Romania, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XV, No. 2 / 2023, <https://doi.org/10.54684/ijmmt.2023.15.2.180>, https://ijmmt.ro/download-paper/vol15no22023/20_Ursu%20Mircea-Petru.pdf
16. Mircea-Petru Ursu, Digital Decoder from Binary Code to 7-Segment LED Displays, 2023 17th International Conference on Engineering of Modern Electric Systems (EMES), DOI: 10.1109/EMES58375.2023.10171721, <https://17113e8zv-y-https-ieeeexplore-ieee-org.z-e-information.ro/document/10171721>
17. Mircea-Petru URSU, Dragoș-Adrian CONDRUZ, Digital Tester of the DCC Signal Reception Quality, International Conference ModTech2022 Mamaia, Romania, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XIV, No.3/2022, <https://doi.org/10.54684/ijmmt.2022.14.3.270>, https://www.ijmmt.ro/vol14no32022/40_Mircea_Petru_Ursu.pdf

18. Alin Pop, Florin-Sandu Blaga, Mircea-Petru Ursu, Voichița Hule, Monica Faur, Automated Manufacturing Systems, Modelled by Means of Coloured Petri Nets with Complex Colours and Functions, International Conference ModTech2022 Mamaia, Romania, International Journal of Modern Manufacturing Technologies, ISSN 2067-3604, Vol.XIV, No.2/2022, <https://doi.org/10.54684/ijmmt.2022.14.2.199>,
https://www.ijmmt.ro/vol14no22022/22_Alin_Pop.pdf
19. A M Prada, F S Blaga and M Ursu, Choice of Offers by means of Multi-criteria Decision Systems, using Fuzzy Logic. Case Study, IOP Conference Series: Materials Science and Engineering, Volume 1169, The Annual Session Of Scientific Papers (IMT Oradea 2021) 27th-28th May 2021, Oradea, Romania, <https://iopscience.iop.org/article/10.1088/1757-899X/1169/1/012009>

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

- Reviste

1. Burcă M., Ursu M.P., Research Regarding the Projection Welding of Cylindrical Filters Made of Stainless Steel Net, Nonconventional Technologies Review nr.1/2016, pag.56-62, ISSN 2359 – 8654 (B+);
2. Ursu M.P., Usage of Microwaves for Decontamination of Sensible Materials and Cereal Seeds, Nonconventional Technologies Review nr.3/2015, pag.60-64, ISSN 2359-8654 (B+)

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Florin BLAGA, Iulian STĂNĂȘEL, Voichița HULE, Mircea-Petru URSU, Dan CRĂCIUN, Modeling And Simulation, Instruments For Efficiency Improvement Of Fabrication Systems Fitted With Conveyors, Conference IMT2016, University of Oradea (B+);
2. Burcă M., Buidosș T., Ursu M.P., Cercetări privind sudarea prin presiune în puncte a unei site de filtrare din oțel inoxidabil marca AISI 316 pentru mașinile de injectat mase plastice, Conferința ASR2015, Arad 22 - 24 aprilie 2015
3. Ursu M.P., Buidosș T., Experimental Research about Adjusting the Exposure Time and Power Level of Microwaves for Industrial Applications, Conference ModTech2014, Advanced Materials Research vol.1036 pp.476-481, © (2014) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1036.476

E. Brevete obținute în întreaga activitate

1. Ursu D., Dunca F., Kiss M., Ursu M.P., „Dispozitiv pentru calibrarea fluxului de heliu”, certificat de inventator nr.97606 / 1989

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Semnătura: