

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Diagnosticarea și monitorizarea rețelelor electrice, domeniul Inginerie Energetică, Universitatea Politehnica București, 2010.

B. Suport didactic

1. MIRCEA, P.M., *Partea Electrica a Centralelor și Statiilor*, suport de curs și proiect, format electronic disponibile în Google Classroom.
2. MIRCEA, P.M., BRATU. C., *Sisteme de conducere, supraveghere și achiziții de date*, suport de curs și laborator, format electronic, disponibile în Google Classroom.
3. MIRCEA, P.M., BRATU. C., *Achiziții și prelucrarea datelor*, suport de curs și laborator, format electronic disponibile în Google Classroom.
4. MIRCEA, P.M., *Electrosecuritate și izolația rețelelor electrice*, suport de curs, laborator și seminar, format electronic disponibile în Google Classroom.
5. MIRCEA, P.M., BUZATU, G.C., *Defectoscopia și repararea echipamentelor electrocasnice*, suport de curs, seminar și îndrumar laborator, format electronic disponibile în Google Classroom.
6. MIRCEA, P.M., STAN IVAN F.E., *Tehnologii Smart Grid*, suport de curs și seminar, format electronic disponibile în Google Classroom.

C. Cărți și capitole în cărți

2021-2025

1. Editors: LAZAROIU, G.C., ROSCIA, M., DANCU. V.S., *Energy Transition Holistic Impact Challenge (Ethic): A New Environmental And Climatic Era*, Chapter 16 - MIRCEA, P.M., Editura Springer, eBook ISBN 978-3-031-55448-3.

2016-2020

2. MIRCEA, P.M., „*Electrosecuritatea instalațiilor energetice*”, Îndrumar de laborator, Editura Sitech, Craiova, 2017, ISBN 978-606-11-5952-9.

D. Lucrări indexate ISI/BDI

D1. Reviste

2021-2025

1. DINA, L.-A., VOICU, V., DUMBRAVA, I., MIRCEA, P.M., NICOLAE, I.D. „*Sustainable Maintenance of Conductors in Transmission/Distribution Networks Using Complex Magnetic Field Analysis*”, *Sustainability* 2024, 16, 6659. <https://doi.org/10.3390/su16156659>. WOS:001286957100001, eISSN 2071-1050. Revista ISI.
2. NIȚU, M.C.; NICOLAE, I.D.; DINA, L.A.; MIRCEA, P.M. „*Power Transformer Inrush Current Analysis: Simulation, Measurement and Effects*”, *Applied Science* 2024, 14, 10926. <https://doi.org/10.3390/app142310926>, WOS:001376208200001, eISSN 2076-3417. Revista ISI.

3. NIȚU, M.-C., DINA, L.-A., NICOLAE, I.-D., NICOLAE, M.-Ș., MIRCEA, P.-M., “*Overvoltages Transmitted in the Transformer Windings on the Lightning Impulse—An Analytical Method for Determination and Experimental Measurements*”, Applied Science 2025, Vol. 15, 5861 Appl. Sci., eISSN 2076-3417. Revista ISI.
4. DIGA, S.M., MIRCEA, P.M., DIGA, N., BUZATU, G.C., RADU, E.D., BRUMA, I., “*Use of Dedicated Software to Improve the Energy Efficiency of Centrifugal Pumps Drive Induction Motors in Power Plants*”, 16TH REGIONAL ENERGY FORUM – FOREN 2022, WEC CENTRAL & EASTERN EUROPE, 12-15 June 2022, Vox Maris Grand Resort, Costinesti, Romania, 13 pg., <http://cnr-cme.ro/foren-2022/>, EMERG, Volume VIII, Issue 4/2022, ISSN 2668-7003, ISSN-L 2457-5011. Revista BDI.
5. TOMA, I., DINA, L.A., MIRCEA, P.M., BRATU, C., “*Determination of the electrical resistance variation in assemblies type electrical conductor – clamping clamp*”, EMERG, Volume X, Issue 4/2024, pp.7-16, ISSN 2668-7003, ISSN-L 2457-5011, DOI:10.37410/EMERG.2024.4.01. Revista BDI.
6. DIGĂ, S.M., DIGĂ, N., MIRCEA, P.M., PĂTRU, I., “*Considerations on the analysis of the operating characteristics of the horizontal synchronous motors equipping the hydro aggregates in high-power energy pumping stations*”, Volume X, Issue 3/2024, pp 59 – 74, DOI:10.37410/EMERG.2024.3.04, ISSN 2668-7003, ISSN-L 2457-5011. Revista BDI.
7. NIȚU, M.-C., ACIU, A.-M., ȘTEFAN, D., MIRCEA, P.M., “*Improving the Quality Index of Insulating Oil in Transformers by Applying the Dehumidification Process*”, International Journal of Environmental Science (IJES), Vol. 10, pp. 20–27, ISSN 2367-8941, 2025. Revista BDI.

2016-2020

8. BUZATU, G.C., STAN IVAN, F.E., MIRCEA, P.M., MIRCEA, I., “*Determination of attenuation index curve "Ri(F)" for homogeneous double locking elements*”, Journal of Sustainable Energy Vol. 7, No. 4, December, 2016, ISSN:2067-5534. Revista BDI.
9. MIRCEA. P. M., URSU.D., MARIN. I., MIRCEA. I., BUZATU. G.C., “*Analysis of overvoltages occurring at grounding faults in a medium voltage network depending on the neutral treatment*”, Journal of Sustainable Energy, Vol. 8, No. 3, September, 2017, ISSN:2067-5534. Revista BDI.
10. MIRCEA, P.M., RUSINARU, D., CIONTU, M., MANESCU, L.G., MIRCEA, I., BUZATU, G.C., „*Computer Assisted Training Tools Used to Increase Staff Performance*”, International Journal of Education and Learning Systems, vol.2, pag 150-155, 2017, ISSN: 2367-8933. Revista BDI.
11. ROSCA, V.M., MIRCEA, P.M., BUTOARCA, E., MIRCEA I., MARIN, I., BRATU, C., CIONTU, M., „*Influence analysis of neutral treatment methods on the performance indicators for an electrical energy distribution service*”, Journal Of Sustainable Energy, Vol. 10, No. 1, March, 2019, ISSN 2067-5534. Revista BDI.

D2. Manifestări științifice

2021-2025

12. DIGA, S.M., NAVRAPESCU, V., DIGA, N., BRATU, C., MIRCEA, P.M., „*Considerations on the Harmonic Regime Produced by the Faults Appeared in the Medium Voltage Networks with the Neutral Treated by Extinguishing Coil*”, International Conference on Applied and Theoretical Electricity (ICATE), May 27-29, 2021, Craiova, Romania, ISSN 2376-4163, ID 63, DOI 10.1109/ICATE49685.2021.9465063.
13. MARIN, I., URSU, D., CIONTU, M., MIRCEA, P.M., MIRCEA, I., BUZATU, G.C., „*Study of Overvoltages at the Extinguishing Coil Disconnection from Medium Voltage Networks in Stabilized Earthing Regime*”, 2021 International Conference on Applied and Theoretical Electricity (ICATE), May 27-29, 2021, Craiova, Romania, ISSN 2376-4163, ID 107, DOI 10.1109/ICATE49685.2021.9465027.
14. BUZATU, G.C., MIRCEA, P.M., BRATU, C., URSU, D., BUTOARCA, I.E., CHERA, G., „*Possibilities to Improve Energy and Economic Efficiency for an Overhead Transformer Station and Related Network*”, 2021 International Conference on Applied and Theoretical Electricity (ICATE), May 27-29, 2021, Craiova, Romania, ISSN 2376-4163, ID 109, DOI 10.1109/ICATE49685.2021.9465012.
15. MARIN, I., URSU, D., MIRCEA, P.M., CIONTU, M., MIRCEA, I., “*Study of Overvoltages Due to Single Phase Defects in Networks with Insulated Neutral and Shunt Breaker*”, 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC), 25-28 September 2022, Brasov, Romania.

IEEE Explore, pag. 143-149, ISSN: 2473-0165, DOI: 10.1109/PEMC51159.2022.9962932, WOS: 001338023800021.

16. DIGĂ, S. M., DIGĂ, N., MIRCEA, P.M., PĂTRU, I., RADU, E. D., “*Considerations for Some Immunity Tests to the Disturbances to Which LED Luminaires Are Subjected*”, 2021 Sixth Junior Conference on Lighting, 23-25 September 2021, Gabrovo, Bulgaria, <https://conference.nko.bg/>, IEEE (conference record #49406), DOI: 10.1109/Lighting49406.2021.9599043, Electronic ISBN: 978-1-6654-3792-9 CD: 978-1-6654-3791-2 Print on Demand (PoD) ISBN:978-1-6654-3793-6.
17. MARIN, I., URSU, D., CIONTU, M., MIRCEA, P.M., RUSINARU, D., MIRCEA, I., “*Influence of MV Networks’ Distributed Neutral Grounding on the Homopolar Directional Current Protection*”, 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), 20-22 Octombrie 2022, Iasi, Romania. IEEEExplore, 301-306, ISBN 978-1-6654-8994-2/22, DOI: 10.1109/EPE56121.2022.9959814, ISSN: 2644-223X.
18. DIGA, S.M., PATRU, I., DIGA, N., MIRCEA, P.M., MIRCEA, I., “*Aspects of Photometric Calculation and Monitoring of Parameters Related to an Interior Lighting Installation*”, Proceedings of 2022 Seventh Junior Conference on Lighting (Lighting 2022 Hybrid Conference), 19-21 September 2022, Sozopol, Bulgaria, DOI: 10.1109/Lighting56379.2022.9929029.
19. RUSINARU, D., MIRCEA, P.M., BUZATU, G.C., MANESCU, L.G., ALBA, M., “*Assessment of prosumer photovoltaic installation impact on voltage variations in low-voltage networks*”, SGEM 22 International Scientific Conferences on Earth & Planetary Sciences Extended Scientific Sessions „Green Sciences for Green Life “SCHÖNBRUNN Palace, Vienna, 6 - 9 December, 2022, ISBN:978-619-7603-50-7, ISSN:1314-2704, DOI:10.5593/sgem2022V/4.2/s17.63.
20. DIGĂ, S. M., DIGĂ, N., MIRCEA, P. M., NICOLAE, M. Ș., PĂTRU, I., DINU, R. C. “*Considerations on Electromagnetic Disturbances Produced by LEDs Light Sources*”, in Proceedings of The First Workshop of the 2023 Power Quality and Electromagnetic Compatibility at Low Frequency (PQEMC-LF), 28-30 June 2023, Craiova, Romania, DOI: 10.1109/PQEMC-LF58184.2023.10211262, Electronic ISBN:979-8-3503-4133-1, Print on Demand(PoD) ISBN:979-8-3503-4134-8.
21. DIGĂ, S. M., DIGĂ, N., MIRCEA, P. M., PĂTRU, I., NICOLAE, M. Ș., MIRCEA, I., “*Considerations on Electromagnetic Disturbances Appearing in Electrical Energy Smart Metering Systems*”, in Proceedings of The 18-th International Conference on Electrical Machines, Drives and Power Systems ELMA 2023, June 29 - July 1 2023, Varna, Bulgaria, Technically Co-sponsored by IEEE (conference record 58392X), DOI: 10.1109/ELMA58392.2023.10202538, Electronic ISBN: 979-8-3503-1127-3, USB ISBN: 979-8-3503-2810-3, Print on Demand (PoD) ISBN: 979-8-3503-1128-0.
22. DIGĂ, S. M., DIGĂ, N., MIRCEA, P. M., NICOLAE, M. Ș., MIRCEA, I., “*Modern Aspects of Analysis of the Efficient Operation of the Centrifugal Pumps within the Hydropower Facilities with Pumped Storage*”, in Proceedings of ATEE 2023 The 13th International Symposium on Advances Topics in Electrical Engineering, March 23-25, 2023, Bucharest, Romania, Technically Co-sponsored by IEEE, DOI: 10.1109/ATEE58038.2023.10108167, eISBN:979-8-3503-3193-6, Print on Demand (PoD) ISBN:979-8-3503-3194-3, eISSN: 2159-3604, PoD ISSN: 2068-7966.
23. RUSINARU, D., MIRCEA, P.M., BUZATU, G.C., “*Power Quality Impact of Electric Buses’ Charging*”, Power Quality and Electromagnetic Compatibility at Low Frequency - PQEMC-LF, 28-30 June 2023, Craiova, Romania, DOI: 10.1109/PQEMC-LF58184.2023.10211420, eISBN:979-8-3503-4133-1, Print on Demand (PoD) ISBN:979-8-3503-4134-8.
24. VOICU, V., DINA, L.A., MIRCEA, P.M., DUMBRAVA, I., “*Magnetic and Electric Field Measurement Experiments*”, Power Quality and Electromagnetic Compatibility at Low Frequency - PQEMC-LF, 28-30 June 2023, Craiova, Romania, DOI: 10.1109/PQEMC-LF58184.2023.10211641, eISBN:979-8-3503-4133-1, Print on Demand (PoD) ISBN:979-8-3503-4134-8.
25. MARIN, I., MIRCEA, P.M., BUTOARCA, I.E., URSU, D., POPESCU,F., MIRCEA, I., “*Technical efficiency of the shunt breaker in case of a single-phase fault close to the power transformation station*”, International Conference on Applied Mathematics & Computer Science - ICAMCS, 8-10 August 2023, Lefkada Island, Greece, IEEE, ISBN: 979-8-3503-2426-6, DOI: 10.1109/ICAMCS59110.2023.00036.
26. VOICU, V., DINA, L.A., DUMBRAVA, I., MIRCEA, P.M., FIERARU, I., “*Experiments on the Measurement of the Electromagnetic Field*”, International Conference on Electromechanical and Energy Systems SIELMEN, Craiova, Romania, Chisinau, Republica MOLDOVA, 11-13 October 2023, pp. 1-6,

DOI: 10.1109/SIELMEN59038.2023.10290854, eISBN: 979-8-3503-1524-0, Print on Demand (PoD) ISBN: 979-8-3503-1525-7.

27. MARIN, I., MIRCEA, P.M., URSU, D., BRATU, C., BUTOARCA, I.E., MIRCEA, I., „*Influence of the single-phase fault passing resistance on the shunt breaker technical efficiency*”, International Conference on Electromechanical and Energy Systems SIELMEN, Craiova, Romania & Chisinau, Republica MOLDOVA, 11-13 October 2023, pp. 1- 6, DOI: 10.1109/SIELMEN59038.2023.10290736, eISBN: 979-8-3503-1524-0, Print on Demand (PoD) ISBN: 979-8-3503-1525-7.
28. MARIN, I., P.M. MIRCEA, E. BUTOARCA, URSU, D., MIRCEA, I., BRATU, C., „*Technical efficiency of the shunt breaker in the exploitation of distribution networks*”, 2024 International Conference on Development and Application Systems DAS, Suceava, Romania, 2024, pp. 8-12, DOI:10.1109/DAS61944.2024.10541254, ISBN 979-8-3503-4929-0.
29. DIGĂ, S.M., DIGĂ, N., MIRCEA, P.M., PĂTRU, I., BRATU C., DINA, L. A., „*Some Considerations on the Dimensioning of Ancillary Service Transformers of Power Plant*”, 2024 International Conference on Applied and Theoretical Electricity ICATE, Craiova, Romania, 2024, pp. 1-6, DOI: 10.1109/ICATE62934.2024.10749111, ISBN 979-8-3503-8810-7.
30. NITU, M.C., ACIU, A.M., ȘTEFAN, D., MIRCEA, P.M., „*The Dehumidification Process and its Influence on the Insulation System Quality Index*”, International Conference on Applied Mathematics & Computer Science ICAMCS, Venice, Italy, 2024, pp. 238-242, DOI: 10.1109/ICAMCS62774.2024.00038, ISBN 979-8-3503-6380-7.
31. VOICU, V., DUMBRAVA, I., DINA, L.A., MIRCEA, M.P., „*Measurement of electromagnetic fields in the industrial environment*”, 2024 9th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Rhodes Island, Greece, 2024, pp. 106-110, DOI: 10.1109/MCSI63438.2024.00025, ISBN:979-8-3503-7722-4, ISSN: 2996-2056.
32. RUSINARU, D., BUZATU, G.C., MIRCEA, P.M., MANESCU, L.G., BRATU C., ALBA, M., „*Application of Power Quality Monitoring for Disturbance and Fault Diagnosis in a Ski Lift Power Supply Installation*”, 2024 International Conference on Applied and Theoretical Electricity ICATE, Craiova, Romania, 2024, pp. 1-6, DOI: 10.1109/ ICATE62934.2024.10749372, ISBN 979-8-3503-8810-7, ISSN: 2688-0962.
33. RUSINARU, D., MIRCEA, M.P., BUZATU, C.G., MĂNESCU, L.G., BRATU, C., „*Integration of Electric Vehicles Charging Infrastructure with Renewable Energy Sources in Urban Environments: Modeling and Optimization Perspective*”, IEEE International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles & International Transportation Electrification Conference (ESARS-ITEC), Naples, Italy, 2024, pp. 1-6, DOI:10.1109/ESARS-ITEC60450.2024.10819773, ISBN:979-8-3503-7390-5.
34. MARIN, I., MIRCEA, P.M., URSU, D., DINA, L., BUTOARCA, E., BRATU, C., „*Transient Regime Study for Voltages in the Secondary of the MV/LV Power Distribution Transformer at Faults in the MV Network*”, International Conference on Electrical Drives and Power Electronics (EDPE 2025), DOI:10.1109/EDPE66853 .2025.11.22.4215.
35. DIGĂ, S.-M., DIGĂ, N., MIRCEA, P.M., PĂTRU, I., BRATU, C., DINA, L.-A., „*Considerations on Forecasting the Production of Photovoltaic Parks in Operation*”, 2025 ATEE 14th International Symposium on Advanced Topics in Electrical Engineering.
36. NIȚU, M.-C., MIRCEA, P.M., DINA, L.-A., FILIP, N., „*Lightning Impulse Test for Fault Detection in Power Transformers*”, International Conference on Electromechanical and Energy Systems SIELMEN 2025.
37. TOMA, I., NIȚU, M.-C., DINA, L.-A., MIRCEA, P.M., „*Sustainable Approaches in the Reliability Assessment of Cables for Overhead Power Line Infrastructure*”, International Conference on Electromechanical and Energy Systems (SIELMEN 2025).
38. STAN-IVAN, F.E., DUINEA, M.A., DINU, R.C., BUZATU, G.C., BRATU, C., MIRCEA, P.M., „*Analyzing the Impact of Cooling Systems on the Performance of Photovoltaic Panels*”, International Conference on Electromechanical and Energy Systems (SIELMEN 2025).

2016-2020

39. PORUMB, R., MIRCEA P.M., TOADER, C., BUICA, G., BEIU, C-tin., MIRCEA, I., „*Neutral Point Potential Variation from the Low Voltage Distribution Electricity Grids*”, 13th International Conference on Applied and Theoretical Electricity ICATE 2016, 6 - 8 October 2016, Craiova, ISBN 978-1-4673-8562-6.

40. NICULESCU, E.S., MIRCEA, I., MIRCEA, P.M.,” *Interconnection Longitudinal Differential Protection Using Digital Communications Infrastructure WAN*”, 13th International Conference on Applied and Theoretical Electricity ICATE 2016, 6 - 8 October 2016, Craiova, ISBN 978-1-4673-8562-6.
41. BEIU, C-tin., TOADER, C., GOLOVANOV, N., BUICA, G., MIRCEA, P.M., „*Determination Of The Electric Field On High Voltage Rubber Insulators Using The Finite Element Method*”, 13th International Conference on Applied and Theoretical Electricity ICATE 2016, 6 - 8 October 2016, Craiova, ISBN 978-1-4673-8562-6, USB ISBN: 978-1-4673-8561-9, Print on Demand (PoD) ISBN: 978-1-4673-8563-3, DOI: 10.1109/ICATE.2016.7754639, WOS:000390767500039.
42. MIHAI, C., POPA, C., MIRCEA, P.M., “*Load Profiling for Gas Stations using cluster techniques*”, IEEE International Power Electronics and Motion Control Conference IEEE - PEMC 2016, 25 - 30 September 2016, Varna, Bulgaria, ISBN 978-1-5090-1798-0, IEEE Catalog Number: CFP1634A-ART.
43. MIHAI, C., ILEA, D., MIRCEA, P.M., “*Use of Load Profile Curves for the Energy Market*”, 13th International Conference on DEVELOPMENT AND APPLICATION SYSTEMS, DAS, 19-21 May 2016, Suceava, Romania, ISBN 978-1-5090-1993-9/16, WOS:000383222200011.
44. MIRCEA P.M., BORUZ M.A., MIRCEA, I., “*Transient phenomena in power transformers theoretical and practical approach*”, The 10th International Symposium on Advanced Topics in Electrical Engineering ATEE, 23-25 March 2017, Bucharest, Pag. 848 – 85, DOI: 10.1109/ATEE.2017.7905080, WOS: 000403399400165, ISBN:978-1-5090-5160-1, ISSN: 1843-8571.
45. BUZATU,G.C., STAN IVAN,F.E., MIRCEA,P.M., MANESCU,L.G., „*Thermal transmittance determination for different components of buildings*”, International Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2017, 25-27 Mai 2017, Cheile Gradistei – Brasov, Pag 227-232,ISBN 978-1-5090-4488-7/17/\$31.00 ©2017 IEEE, WOS:000426909600035,ISBN:978-1-5090-4489-4.
46. RUSINARU, D., CIONTU, M., MANESCU, L.G., MIRCEA, P.M., et al., “*Powering Knowledge Transfer at INCESA - BRIDGE projects*”, International Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2017, 25-27 Mai 2017, Cheile Gradistei – Brasov, Pag 190-195, ISBN 978-1-5090-4488-7/17/\$31.00 ©2017 IEEE, WOS:000426909600029, ISBN:978-1-5090-4489-4.
47. BUTOARCA, E., URSU, D., MIRCEA, P.M., MARIN, I., CIURESCU TRIBIAN, M., BUZATU, G.C., “*Issues of Selective Detection and Elimination of Earth Faults in MV Networks with the Neutral Treated by Petersen Coil*”, International Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2017, 25-27 Mai 2017, Cheile Gradistei – Brasov, Pag 140-145, ISBN 978-1-5090-4488-7/17/\$31.00 ©2017 IEEE, WOS:000426909600021, ISBN:978-1-5090-4489-4.
48. MIRCEA, PM., BUZATU,GC., MIRCEA, I., MARIN, I., URSU, D., BOCAI, FA., „*Overvoltages evaluation in electrical networks with isolated neutral - analytical calculation and experimental tests*”, EUROPEAN CONFERENCE ON ELECTRICAL ENGINEERING AND COMPUTER SCIENCE (EECS 2017), Bern,SWITZERLAND, 17-19 November 2017, WOS:000455867600069, ISBN:978-1-5386-2085-4.
49. MIRCEA. P. M., CIONTU, M., MARIN. I., MIRCEA. I., RUSINARU, D., BUZATU. G.C., POPESCU, F., “*The influence of neutral treatment system type on the efficiency / performance of the MV networks*”, International Conference on Applied and Theoretical Electricity, ICATE 4-6 Oct. 2018, Craiova, Romania, DOI: 10.1109/ICATE.2018.8551452, Electronic ISBN: 978-1-5386-3806-4, USB ISBN: 978-1-5386-3805-7, PoD ISBN: 978-1-5386-3807-1. WOS:000487278600068.
50. MIRCEA. P. M., CIONTU, M., MARIN. I., MANDACHE. L., MANESCU, L.G., URSU. D., BRATU, C., „*Influence of the single-phase fault place on the neutral treatment system parameters in MV networks*”, International Conference on Applied and Theoretical Electricity, ICATE 4 - 6 Oct. 2018, Craiova, Romania, DOI: 10.1109/ICATE.2018.8551387, Electronic ISBN: 978-1-5386-3806-4, USB ISBN: 978-1-5386-3805-7, Print on Demand (PoD) ISBN: 978-1-5386-3807-1, WOS:000487278600021.
51. MIRCEA. P. M., CIONTU, M., MIRCEA. I., BUZATU. G.C., RUSINARU,D., URSU.D., MARIN. I., BUTOARCA., E., “*Analyzing the efficiency of neutral treatment with resistor and shunt circuit breaker in a MV distribution substation*”, International Conference on Control, Artificial Intelligence, Robotics & Optimization, ICCAIRO 19-21 May 2018, Prague, Czech Republic, ISBN 978-1-5386-9577-7, Electronic ISBN: 978-1-5386-9576-0, DOI: 10.1109/ICCAIRO.2018.00044.
52. RUSINARU, D., POPÎRLAN, C., STOIAN, G., BUZATU, G.C., NEGOITA, A., MANESCU, L.G., COJOACĂ, A., MIRCEA, P.M., „*Extended Capabilities of the Power Quality Management System of the Power Distribution Grid for Data Exchange*”, MATEC Web Conference Volume 210 02045 (2018), EDP

Sciences, doi.org/10.1051/mateconf/201821002045, https://www.matec-conferences.org/articles/mateconf/pdf/2018/69/mateconf_csc2018_02045.pdf, eISSN: 2261-236X.

53. MIRCEA, P.M., MARIN, I., MIRCEA, I., RUSINARU, D., BUZATU, G.C., CIONTU, M., BRATU, C., „*Impact analysis of changing the neutral treatment solution in an MV electrical station on the system performance*”, MATEC Web Conf. - CSCC 2018, Volume 210, 22nd International Conference on Circuits, Systems, Communications and Computers, EDP Sciences, <https://doi.org/10.1051/mateconf/201821002054>, eISSN: 2261-236X.

E. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

2021-2025

1. POPESCU, F., MARIN, I., URUSU, D., BUTOARCA, I.E., MIRCEA, P. M., “*The influence of the shunt breaker on the maximum zero sequence current protections in the MV network*”, CIGRE 2022 Regional South-East European Conference, 18-20 October 2022, Iasi, Romania.
2. URUSU, D., BUTOARCA, E., MARIN, I., MOANTA, C., POPESCU, F., MIRCEA, P.M., prezentare – „*Reglajul dinamic al nivelului de medie tensiune in statiile de transformare*”, Simpozionul National de Informatica, Automatizarisi telecomunicatii in Energetica, Sinaia 22-24 Octombrie 2025.

2016-2020

3. MIRCEA, P.M., poster prezentare grant „*Soluții inteligente de tratare a neutrului în stațiile electrice 110kV/MT pentru creșterea eficienței energetice, securității personalului și siguranței în alimentarea utilizatorilor*”, PN-III – 70BG, Forumul Regional al Energiei FOREN, a 14-a Ediție, 10-14 Iunie 2018, Costinești, Romania.
4. BUTOARCA, E., URUSU, D., MARIN, I., MOANTA, C., MIRCEA, P.M., BUTOARCA, A.L., prezentare „*Sistem de telecomunicație prin curenți purtători utilizând conductoarele active ale LES de medie tensiune*”, Conferința Națională și Expoziția de Energetică CNEE, Sinaia 23-25 Octombrie 2019.

F. Brevete obținute în întreaga activitate

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G. Participare la proiecte de cercetare

G1. Granturi / proiecte câștigate prin competiție națională/internațională

2021-2025

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2016-2020

1. Program PNCDI III -- PN-III-P2-2.1-BG-2016-0202 „*Solutii inteligente de tratarea neutrului in statiile electrice 110kV/MT pentru cresterea eficientei energetice, securitatii personalului si sigurantei in alimentarea utilizatorilor*” – partener DEO - coordonat de UEFISCDI - 10.2016, responsabil contract.
2. Program PNCDI III -- PN-III-P2-2.1-BG-2016-0269 „*Sistem inteligent de monitorizare simanagement al calitatii energiei electrice la interfata dintre rețeaua electrica de distributie si utilizatorii ei*” – partener DEO - coordonat de UEFISCDI - 01.10.2016, membru în echipa de cercetare.

G2. Contracte de cercetare / consultanță (valoare echivalentă de minim 2.000 Euro)

2021-2025

3. Contract nr. 60.1.DJ/214281.0-0/16.12.2021 (UCV 21C/14.12.2021), responsabil contract, Beneficiar: Distribuție Energie Oltenia.
4. Contract nr.04/27.01.2022/UCV 3C/25.01.2022, responsabil contract, Beneficiar: Ovidiu Development S.A.

5. Contract nr.04/26.01.2022 (UCV 4C/25.01.2022), responsabil contract, Beneficiar: Tomis Team S.A.
6. Contract nr.21/15.03.2022 (UCV 8C/24.03.2022), responsabil contract, Beneficiar Compania de Apă Oltenia S.A.
7. Contract nr.60.1.DJ/225271.0-0/06.12.2022 (UCV 21C/28.11.2022), responsabil contract, Beneficiar: Distribuție Energie Oltenia.
8. Contract nr.22/10.03.2023/UCV 4C/15.03.2023, responsabil contract, Beneficiar Compania de Apă Oltenia S.A.
9. Contract nr. 889/28.04.2023 (UCV 7C/26.04.2023), responsabil contract, Beneficiar Uzina Mecanica Sadu S.A.
10. Contract nr. 2925/08.09.2023, (UCV 13C/20.09.2023), responsabil contract, Beneficiar Popeci Utilaj Greu.
11. Contract nr. RO40/112/26.08.2023 (UCV 14C/25.09.2023), responsabil contract, Beneficiar CEZ Romania S.A.
12. Contract 17C/04.12.2023, responsabil contract, Beneficiar Distributie Energie Oltenia SA.
13. Contract Nr. 2161/27.02.2024 (UCV 5C/21.02.2024), responsabil contract, Beneficiar: Vimetco Extrusion SA.
14. Contract 6C/29.02.2024, responsabil contract, Beneficiar Compania de Apa Oltenia SA.
15. Contract nr. 19051/3110.2018, Act adițional prelungire nr. 5/28.10.2022, Act adițional 8/07.06.2024, responsabil contract, Beneficiar Pirelli Tyers Romania SRL.
16. Contract nr. 60.1.DJ.246354.0-0/17.12.2024 (UCV 16C/13.12.2024), responsabil contract, Beneficiar Distribuție Energie Oltenia S.A.
17. Contract nr. 4C/07.04.2025 (Nr. 25/01.04.2025), CLC 51547219 și CLC 51592842, responsabil contract, Beneficiar Compania de Apa Oltenia SA.
18. Contract nr. 227/27.05.2025, (UCV 6C/02.06.2025), responsabil contract, Beneficiar ICMET Craiova.
19. Contract nr. TMK Hydroenergy Power 01/04.01.2022 (UCV 22C/20.12.2021), membru in echipa de cercetare, Beneficiar TMK Hydroenergy Power.
20. Contract nr. 05/26.01.2022 (UCV 2C/25.01.2022), membru in echipa de cercetare, Beneficiar: MW Team Invest SRL.

2016-2020

21. Contract nr. 60.1.DJ.37331/25.10.2016, responsabil contract, Beneficiar: CEZ Distributie S.A.
22. Contract nr. 1455/24.07.2017 (UCV 14C/31.07.2017), responsabil contract, Beneficiar: Vimetco Extrusion S.R.L.
23. Contract nr. 60.1.DJ.4717/01.11.2017 (UCV I 1169/30.10.2017), responsabil contract, Beneficiar: CEZ Distributie S.A – Distributie Energie Oltenia.
24. Contract înregistrat la Universitatea din Craiova/Incesa cu numărul I345/23.07.2018, Ciech Soda Romania S.A., nr. 3939/27.07.2018, responsabil contract, Beneficiar: SC U.S.GOVORA Ciech Chemical Group S.A.
25. Contract nr. 60.1.DJ.10655/13.11.2018 (UCV I 499/09.11.2018), responsabil contract, Beneficiar: CEZ Distributie S.A – Distributie Energie Oltenia.
26. Contract nr. 29C/29.11.2019, responsabil contract, Beneficiar: CEZ Distributie S.A – Distributie Energie Oltenia.
27. Contract nr. 3C/29.01.2019, responsabil contract, Beneficiar: Chimcomplex SA Borzesti.
28. Contract nr. 11C/14.12.2020, responsabil contract, Beneficiar: Distributie Energie Oltenia.
29. Contract nr. 2C/07.03.2016, membru in echipa de cercetare, Beneficiar: S.C.OLTCHIM S.A.

Data:
01.10.2025

Semnătura: