

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

A. Teza de doctorat

1. Studiul regimului nesinusoidal în sistemele electrice
2. L'étude du régime non-sinusoïdal dans les systèmes électriques

B. Suport didactic

1. **L.G. Manescu**, Sisteme electroenergetice, suport de curs, Craiova, ediție actualizată – format electronic, disponibil pe platforma Google Classroom.
2. **L.G. Manescu**, Rețele electrice II, suport de curs, pentru programul de studii de licență Inginerie Sistemelor Electroenergetice, Craiova, ediție actualizată – format electronic, disponibil pe platforma Google Classroom.

C. Cărți și capitole în cărți

2021-2025

1. Buzatu G. C., Bratu C., Rușinaru D., **Mănescu L. G.**, Interacțiunea dintre echipamentele electrice și rețea, Editura Universitaria, Craiova, 2024, ISBN: 978-606-14-2046-9, nr. pag. 177.

2016-2020

2. -

D. Lucrări indexate ISI/BDI

D1. Reviste

2021-2025

2016-2020

1. **Leonardo Geo Manescu**; Denisa Rusinaru; Marian Ciontu; Cosmin Buzatu; Eugen Butoarca; Miron Alba, Study of the Reactive Power Side Effects for Tariff and Compensation Purpose at the Transmission Networks'Users, Annals of University of Craiova, Electrical Engineering Series, No. 40, 2016; ISSN 1842-4805, pp.25-32
2. Mihai Mircea; Denisa Rusinaru; Marian Ciontu; **Leonardo Geo Manescu**; Ion Mircea; Gabriel Cosmin Buzatu; Computer Assisted Training Tools Used to Increase Staff Performance, International Journal of Power Systems, vol. 2, IARAS Publ. 2017, pp. 150-155, ISSN: 2367-8933, [https://www.iaras.org/iaras/filedownloads/ijps/2017/010-0008\(2017\).pdf](https://www.iaras.org/iaras/filedownloads/ijps/2017/010-0008(2017).pdf)
3. D. Rusinaru; **L.G. Manescu**; G. C. Buzatu; M. Ciontu; I. R. Gherlan; M. I. Siminica; A. I. Cojoaca, Research Laboratory for Monitoring and Analysis of Power Quality in Power Distribution Grids, International Journal of Power Systems, vol. 2, IARAS Publ. 2017, pp. 47-52, ISSN: 2367-8976, [https://www.iaras.org/iaras/filedownloads/ijps/2017/010-0008\(2017\).pdf](https://www.iaras.org/iaras/filedownloads/ijps/2017/010-0008(2017).pdf)
4. Claudiu Popirlan; Gabriel Stoian; **Leonardo Geo Manescu**; Denisa Rusinaru; Marian Ciontu; Cosmin Buzatu; Miron Alba, Adrian Cojoaca, Application development to convert heterogeneous information into

PQDIF (Power Quality Data Interchange Format), published in International Journal of Computer Science and Information Technology (IJCSIT), vol.10, issue 8, 2018, ISSN:0975-3826 (print), 0975-4660 (on-line), DOI: 10.5121/ijcsit.2018.10401, <http://aircconline.com/ijcsit/V10N4/10418ijcsit01.pdf>

D2. Manifestări științifice

2021-2025

1. **L.G. Mănescu**, D. Rușinaru, C. Buzatu, L. Mandache, A. Băndoi, C. Sitnikov, C. Popîrlan, C.M. Negrilă, C.G. Bocean, *Smart Storage and Grid Services Based on Removable Modular Batteries for EV*, 2021 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2021, pp. 1-6.
2. Carmen Maria Negrilă, Cristian Bratu, Denisa Rușinaru, **Leonardo-Geo Mănescu**, *Prosumer Investment in Renewable Energy Units. An Economic Analysis*, 2018 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, <https://doi.org/10.1109/ICATE.2018.8551419>
3. 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), 24-26 October 2024, Craiova, Romania, DOI: 10.1109/ICATE62934.2024.10749372, Electronic ISBN:979-8-3503-8810-7, USB ISBN:979-8-3503-8809-1, Print on Demand(PoD) ISBN:979-8-3503-8811-4, Electronic ISSN: 2688-0962, Print on Demand(PoD) ISSN: 2376-4163, IEEEExplore.
4. Rușinaru D., Mircea P. M., Buzatu C.G., **Mănescu L.G.**, Bratu C., Integration of Electric Vehicles Charging Infrastructure with Renewable Energy Sources in Urban Environments: Modeling and Optimization Perspectives, 2024 IEEE International Conference on Electrical Systems for Aircraft, Railway, Ship Propulsion and Road Vehicles and International Transportation Electrification Conference, ESARS-ITEC 2024. DOI: 10.1109/ESARS-ITEC60450.2024.10819773, Electronic ISBN:979-8-3503-7390-5, Print on Demand(PoD) ISBN:979-8-3503-7391-2, IEEEExplore.
5. Denisa Rusinaru; Cosmin Toma; Mihaita Linca; Cosmin Buzatu; **Leonardo Geo Manescu**; Mihăiță- Daniel Constatinescu, „Hosting Capacity Assessment for PV Units Integration in the Power Distribution Grids”, 2025, International Conference on Electromechanical and Energy Systems, SIELMEN 2025, 16-17 october 2025, 10.1109/SIELMEN67352.2025.11260726

2016-2020

6. **Leonardo Geo Manescu**; Denisa Rusinaru; Marian Ciontu; Cosmin Buzatu; Radu Dinu; Paul Stroica, Congestion Management using Dispatch or Phase Shifting Transformers, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, Accession Number: WOS:000390767500023, ISBN:978-1-4673-8562-6, ISSN: 2376-4163, DOI: 10.1109/ICATE.2016.7754623, <https://ieeexplore.ieee.org/document/7754623>
7. **Leonardo-Geo Manescu**, Denisa Rusinaru, Marian Ciontu, Cosmin Buzatu, Radu Dinu, Eugen Butoarca, Miron Alba, Assessment of reactive power related to users of transmission network, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, Accession Number: WOS:000390767500022, ISBN:978-1-4673-8562-6, ISSN: 2376-4163, DOI: 10.1109/ICATE.2016.7754622, <https://ieeexplore.ieee.org/document/7754622>
8. Buzatu G. C., Stan-Ivan F. E., Mircea P. M., **Manescu L. G.**, „Thermal transmittance determination for different components of buildings”, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Transilvania University of Brasov, Faculty of Electrical Engineering and Computer Science, Editura IEEE, ISBN 978-1-5090-4489-4, <http://ieeexplore.ieee.org/documents/7974975/>
9. Denisa Rusinaru; **Leonardo Geo Manescu**; Marian Ciontu; Paul Mihai Mircea; Gabriel Cosmin Buzatu; Gabriel Stoian; Claudiu Popirlan; Titela Vilceanu; Andrei Negoita; Miron Alba, Powering knowledge transfer at INCESA - BRIDGE projects, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, Accession Number: WOS:000426909600029, ISBN: 978-1-5090-4489-4, DOI: 10.1109/OPTIM.2017.7974969

10. **Leonardo Geo Manescu**; Denisa Rusinaru; Claudiu Popirlan; Gabriel Stoian; Marian Ciontu; Gabriel Cosmin Buzatu; Miron Alba, Complex Software System for Data Management and Analysis of Power Distribution Grids, 2017 Fourth International Conference on Mathematics and Computers in Sciences and in Industry (MCSI), Corfu, Greece, Accession Number: WOS:000452189900009, ISBN: 978-1-5386-2820-1, DOI: 10.1109/MCSI.2017.18
11. Denisa Rusinaru; Claudiu Popirlan; Gabriel Stoian; Cosmin Buzatu; Andrei Negoita; **Leonardo Geo Manescu**; Adrian Cojoaca; Mihai Mircea, Extended Capabilities of the Power Quality Management System of the Power Distribution Grid for Data Exchange, 22nd International Conference on Circuits, Systems, Communications and Computers (CSCC 2018), Majorca, Spain, MATEC Web Conf. Volume 210, article no. 2018, ISSN: 2261236X, <https://doi.org/10.1051/mateconf/201821002045>
12. Claudiu Ionut Popirlan; Gabriel Stoian; **Leonardo Geo Manescu**; Denisa Rusinaru; Marian Ciontu; Gabriel Cosmin Buzatu; Miron Alba; Adrian Cojoaca, A Web-Based Solution for Power Quality Data Management, 10th International Conference on Networks & Communications (NeCoM 2018), Copenhagen, Denmark, 2018 (published in AIRCC Publishing Corporation, Conference Proceedings vol. 8, no. 09, 2018). DOI: 10.5121/csit.2018.80907
13. Rusinaru, D.; **Manescu, L.G.**; Ciontu, M.; Buzatu, C.; Alba, M.; Cojoaca, A, Estimation of the Maximum Permissible Injections of the Distributed Generation in the LV Networks based on Power Quality Considerations, MATHEMATICAL METHODS AND COMPUTATIONAL TECHNIQUES IN SCIENCE AND ENGINEERING II, Book Series: AIP Conference Proceedings, Volume: 1982, Article Number: 020003-1, DOI: 10.1063/1.5045409, Published: 2018, Document Type: Proceedings Paper, Accession Number: WOS:000447848800003, ISBN: 978-0-7354-1698-7, ISSN: 0094-243X
14. Denisa Rusinaru; **Leonardo Geo Manescu**; Adrian Cojoaca; Miron Alba; Constantin Bulac; Daniela Rosca, *Grid Integration of the Small Generation Units in LV Distribution Networks*, 2018 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, [10.1109/ICATE.2018.8551370](https://doi.org/10.1109/ICATE.2018.8551370), <https://ieeexplore.ieee.org/document/8551370>
15. D. Rusinaru; **L.G. Manescu**; M. Ciontu; A. Cojoaca; M. Alba, Web-based Application for Mapping of the Power Quality Level in the Power Distribution Grids, International Journal of Energy and Environment, North Atlantic University Union, vol. 11, 2017, pp.69-74, ISSN 2308-1007, <http://www.naun.org/main/NAUN/energyenvironment/2017/a202011-039.pdf>

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

2021-2025

1. -

2016-2020

1. Popîrlan, C.I., Stoian, G., **Mănescu, G.L.**, Rușinaru, D., Ciontu, M., Buzatu, C.G. *A Web-Based Solution for Power Quality Data Management, Computer Science & Information Technology*, 10th International Conference on Networks & Communications (NeCoM 2018) June 23~24, 2018, Copenhagen, Denmark
2. Rusinaru, D., **Manescu, L. G.**, Ciontu, M., Mircea, P. M., Buzatu, C. G., Stoian, G., Popirlan, C. I., Siminică, M., Negoita, A., Gherlan, R., *Knowledge transfer and information exchange between INCESA – University of Craiova and industry through BRIDGE projects - Intelligent system for monitoring and management of power quality at the interface between power distribution grid and its users*, 14th WEC CENTRAL & EASTERN EUROPE REGIONAL ENERGY FORUM – FOREN 2018, <http://www.cnr-cme.ro/foren2018/>
3. D. Rusinaru; **L.G. Manescu**; M. Ciontu; A. Cojoaca; M. Alba, Web-based Application for Mapping of the Power Quality Level in the Power Distribution Grids, International Journal of Energy and Environment, North Atlantic University Union, vol. 11, 2017, pp.69-74, ISSN 2308-1007, <http://www.naun.org/main/NAUN/energyenvironment/2017/a202011-039.pdf>
4. Rusinaru D.; **Manescu L.G.**; Ciontu M.; Negoita A.; Alba M.; Cojoaca A., The management and analysis of power quality in power distribution grids by using PQView software system, JOURNAL OF SUSTAINABLE ENERGY vol. 8, no. 4, December, 2017, pp.133-138, ISSN 2284-699, http://www.energy-cie.ro/archives/2017/nr_4/v8-n4-1.pdf

5. **Leonardo Geo Manescu**; Denisa Rusinaru; Marian Ciontu; Cosmin Buzatu; Eugen Butoarca; Miron Alba, Study of the Reactive Power Side Effects for Tariff and Compensation Purpose at the Transmission Networks'Users, Annals of University of Craiova, Electrical Engineering Series, No. 40, 2016; ISSN 1842-4805, pp.25-32
6. Denisa Rusinaru; **Leonardo Geo Manescu**; Marian Ciontu; Miron Alba; Load Flow Analysis of Unbalanced Distribution Networks using Symmetrical Components Based Software, Annals of University of Craiova, Electrical Engineering Series, No. 40, 2016; ISSN 1842-4805, pg.159-167

B. Brevete obținute în întreaga activitate

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C. Participare la proiecte de cercetare

G1. Granturi / proiecte câștigate prin competiție națională/internațională

2021-2025

1. Proiect POCU cod 686692395 „, Universitatea din Craiova – noi orizonturi in era digitala”

2016-2020

1. Sistem inteligent de monitorizare și management al calității energiei electrice la interfața dintre rețeaua electrică de distribuție și utilizatorii ei - PN-III-P2-2.1-BG-2016-0269, Contractor Universitatea din Craiova, partener Distribuție Energie Oltenia SA, 2016-2018, director Rusinaru D. – membru în echipa de cercetare
2. Soluții inteligente de tratarea neutrului în stațiile electrice 110kV/MT pentru creșterea eficienței energetice, securității personalului și siguranței în alimentarea utilizatorilor - PN-III-P2-2.1-BG-2016-0202, Contractor Universitatea din Craiova, partener Distribuție Energie Oltenia SA, 2016-2018, director Mircea P.M. – membru în echipa de cercetare
3. Sistem adaptiv pentru asigurarea calității energiei prin corectarea parametrilor electrici ai rețelelor de joasă tensiune integrabil în rețelele smart-grid, 64-2014, PN-II-PT-PCCA-2013, finanțator UEFISCDI, coordonator ICMET Craiova, 2014-2016 – membru în echipa de cercetare

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

2021-2025

1. Contract nr. 60.1.DJ/214281.0-0/16.12.2021 (UCV 21C/14.12.2021), Beneficiar Distribuție Energie Oltenia, Membru colectiv.
2. Contract nr. TMK Hydroenergy Power 01/04.01.2022 (UCV 22C/20.12.2021), Beneficiar TMK Hydroenergy Power, Membru colectiv.
3. Contract nr. 05/26.01.2022 (UCV 2C/25.01.2022), Beneficiar MW Team Invest SRL, Membru colectiv.
4. Contract nr. 04/27.01.2022 (UCV 3C/25.01.2022), Beneficiar Ovidiu Development S.A, Membru colectiv.
5. Contract nr. 04/26.01.2022 (UCV 4C/25.01.2022) Beneficiar Tomis Team S.A., Membru colectiv.
6. Contract nr. 21/15.03.2022 (UCV 8C/24.03.2022), Beneficiar Compania de Apă Oltenia S.A., Membru colectiv.
7. Contract nr. 60.1.DJ/225271.0-0/06.12.2022 (UCV 21C/28.11.2022), Beneficiar Distribuție Energie Oltenia, Membru colectiv.
8. Contract nr. 22/10.03.2023 (UCV 4C/15.03.2023), Beneficiar Compania de Apă Oltenia S.A., Membru colectiv.
9. Contract nr. 2925/08.09.2023, (UCV 13C/20.09.2023), Beneficiar Popeci Utilaj Greu, Membru colectiv.
10. Contract nr. 889/28.04.2023 (UCV 7C/26.04.2023), Beneficiar Uzina Mecanica Sadu S.A., Membru colectiv.

11. Contract nr. RO40/112/26.08.2023 (UCV 14C/25.09.2023), Beneficiar CEZ ROMANIA S.A, Membru colectiv.
12. Contract 17C/04.12.2023, Beneficiar Distributie Energie Oltenia SA, Membru colectiv.
13. Contract Nr. 2161/27.02.2024 (UCV 5C/21.02.2024), Beneficiar Vimetco SA, Membru colectiv.
14. Contract 6C/29.02.2024, Beneficiar Compania de Apa Oltenia SA, Membru colectiv.
15. Contract nr. 19051/3110.2018, Act adițional prelungire nr. 5/28.10.2022, Act adițional 8/07.06.2024, Beneficiar Pirelli Tyers Romania SRL, Membru colectiv.
16. Contract nr. 8270/04.10.2024, (UCV 14C/10.10.2024), Beneficiar Artego S.A, Membru colectiv.
17. Contract nr. 60.1.DJ.246354.0-0/17.12.2024 (UCV 16C/13.12.2024), Beneficiar Distribuție Energie Oltenia S.A, Membru colectiv.
18. Contract nr. 4C/07.04.2025 (Nr. 25/01.04.2025), Beneficiar Compania de Apă Oltenia S.A., Membru colectiv.
19. Contract nr. 227/27.05.2025, (UCV 6C/02.06.2025), Beneficiar ICMET Craiova, Membru colectiv.

2016-2020

20. Serviciul de validare a conformității unităților generatoare tip invertor, 60.1.DJ.314/28.01.2020, beneficiar Distribuție Oltenia SA
21. Servicii de efectuare expertiza tehnica si analiza alimentare energie electrica Partia Ski Mioarele Vidra, Valcea, 60.1.DJ.13297/10.05.2019, beneficiar Distribuție Oltenia SA
22. Studiu privind impactul racordării producătorilor de energie electrică monofazați și trifazați în rețelele electrice de JT, beneficiar Distribuție Energie Oltenia, 60.1 DJ 574-22.02.2017
23. Audit energetic privind reducerea pierderilor tehnice în liniile de 110 kV aferente zonei de licență CEZ Distribuție, prin studierea circulațiilor de puteri și optimizarea schemelor de funcționare, funcție de regimul pluviometric și producția de energie electrică în CHE-uri, beneficiar CEZ Distribuție, 60.1 DJ 37331-25.010.2016, 2016

Data:
01.10.2025

Semnătura: