

Listă lucrări ale Dr. Ing. Radu Alexandru ENESCU

A. Teză de doctorat:

Contribuții privind analiza parametrilor electrici ai unei centrale de cogenerare, profesor coordonator Prof. Univ. Dr. Ing. Horia Andrei.

**B. Cărți si capitole în cărți de specialitate in edituri recunoscute
Cărți/ monografii/ capitole ca autor:**

1. E. Diaconu, A. Enescu, H. Andrei, S. Deleanu, *Numerical Approaches of Biomass Plants Efficiency, capitol in Numerical Methods for Energy Applications*, Springer 2021, pp. 621-649, ISBN 978-3-030-62190-2, ISBN 978-3-030-62191-9 (eBook)
<https://doi.org/10.1007/978-3-030-62191-9> <https://www.worldcat.org/title/1243262950/>
2. A. ENESCU, Îndrumar de laborator. Bazele hidraulicii – Editura Valahia University Press, Târgoviște, 2025 ISBN: 978-606-603-261-2

C. Articole in reviste cotate si in volumele unor manifestări științifice indexate ISI proceedings

1. Andrei, H., Ion, V., Diaconu, E., Enescu, A., Udrișu, I., *Energy consumption analysis of security systems for a residential consumer*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 28-30 May, 2019, Bucharest, Romania, ISBN 978-1-7281-0101-9, DOI: 10.1109/ATEE.2019.8725002 WOS:000475904500157
2. Andrei, H., Enescu, A., Diaconu, E., Ion, V., Udrișu, I., *Data acquisition and modelling of cogeneration power plant parameters* IEEE-Advanced Topics in Electrical Engineering - ATEE, 28-30 May, 2019, Bucharest, Romania, ISBN 978-1-7281-0101-9, DOI: 10.1109/ATEE.2019.8724738 WOS:000475904500006

3. **Enescu, A.**, Andrei, H., Diaconu, E., Ion, V., „*Numerical method for modeling the input –output characteristic in a cogeneration power plant*”, 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 27-29 June 2019, Pitesti, Romania, ISBN 978-1-7281-1625-9, DOI: 10.1109/ECAI46879.2019.9042095
WOS:000569985400118
4. **Enescu, A.**, Andrei, H., Ion, V., Diaconu, E., Angelescu, N., „*Analysis and Modeling of Biomass Plant Energy Efficiency*”, The 6th International Symposium on Electrical And Electronics Engineering, ISEEE, 18 - 20 October 2019, Galati, Romania, DOI: 10.1109/ISEEE48094.2019.9136117
<https://ieeexplore.ieee.org/document/9136117>
WOS:000614815800017
5. **Enescu, A.**, Andrei, H., Diaconu, E., Angelescu, N., „*Financial and technical forecast analysis of a cogeneration biomass plant - Case study in Romania*”, 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 25-27 June 2020, Pitesti, Romania, ISBN 978-1-7281-6844-9, 10.1109/ECAI50035.2020.9223196
<https://ieeexplore.ieee.org/document/9223196>
WOS:000627393500072
6. **Enescu, A.** „*Using Renewable Energy Sources in a Public Educational Building to Achieve Climate Change Mitigation and Adaptation*”, 2025 The International Conference "Agriculture for Life, Life for Agriculture, Land Reclamation, Earth Observation & Surveying, Environmental Engineering 5-7 June 205, Bucharest, Romania
7. **Enescu, A.** Diaconu, E., Nedelcu, O., Ivanovici, T., Tudoroiu. A., Ionitescu S., Nicolae P., „*Integration of Renewable Energy Sources in the Energy Audit of a School Canteen: Thermal Renovation for Carbon Neutrality*”, 2025 The International Conference "Agriculture for Life, Life for Agriculture, Land Reclamation, Earth Observation & Surveying, Environmental Engineering 5-7 June 205, Bucharest, Romania
8. Diaconu, E., **Enescu, A.**, Nedelcu, O., Ivanovici, T., Ionitescu S., Cristea A., „*Designing an Off-Grid Nearly Zero-Energy Building: Integration of Renewable Energy and Storage Systems for Full Autonomy in Order to Achieve Carbon Neutrality*”, 2025 The International Conference "Agriculture for

Life, Life for Agriculture, Land Reclamation, Earth Observation & Surveying, Environmental Engineering 5-7 June 205, Bucharest, Romania

9. Nedelcu, O., **Enescu, A.**, Diaconu, E., Ivanovici, T., Ionitescu S., Aluculesei A., „*Feasibility Study of High-Efficiency Alternative Energy Systems for a Public Office Building: Technical, Economic, and Environmental Assessment*”, 2025 The International Conference "Agriculture for Life, Life for Agriculture, Land Reclamation, Earth Observation & Surveying, Environmental Engineering 5-7 June 205, Bucharest, Romania
10. TUDOROIU, O., Diaconu, E., GHEORGHE, A., **Enescu, A.**, „*Optimizing Network Routing Through Machine Learning To Enhance Energy Efficiency*”, 2025 The International Conference "Agriculture for Life, Life for Agriculture, Land Reclamation, Earth Observation & Surveying, Environmental Engineering 5-7 June 205, Bucharest, Romania

D. Articole in reviste si volumele unor manifestări științifice indexate in alte baze de date internaționale (BDI)

1. **Enescu, A.**, Diaconu, E., „*Cogeneration Plant on Biomass-Case Study*”, The Scientific Bulletin of Electrical Engineering Faculty, 2018, no. 2, pp. 7-11, DOI: <https://doi.org/10.1515/sbeef-2017-0028> ISSN(Online) 2286-2455

E. Proiecte:

1. Membru in cadrul proiectului „*Analiza consumului de energie electrica al unui sistem electronic de securitate rezidential si obtinerea unui model matematic predictiv*” cod INF-2022-1, proiect finantat prin S.C. Infobit Consult S.R.L. in baza contractului de cercetare nr. 8280/2022.
2. Membru in cadrul proiectului „*Realizare sistem de inspectie aeriana cu drone pentru cresterea eficientei centralelor bazate pe energii regenerabile si oferirea de servicii pentru mentenanta acestora*”, cu număr de înregistrare electronică SMIS 109905

3. Membru in cadrul proiectului "Produs pentru corelarea inteligenta a datelor GPR si imagistice aeriene intr-un pachet multistrat" (PEGASUS) - Contract 14 PTE/2020.

F. Citări in carti, reviste si volume ale unor manifestari stiintifice ISI

1. **Enescu, A.**, Andrei, H., Ion, V., **Diaconu, E.**, Angelescu, N., „*Analysis and Modeling of Biomass Plant Energy Efficiency*”, The 6th International Symposium on Electrical And Electronics Engineering, ISEEE, 18 - 20 October 2019, Galati, Romania, DOI: 10.1109/ISEEE48094.2019.9136117
<https://ieeexplore.ieee.org/document/9136117>
 - 1.1. Alin Corbu, Maria Simona Raboaca, Sudeep Tanwar, *Overview Regarding Synthetic Gas Production by Biomass Gasification*, In book: Hydrogen Fuel Cell Technology for Stationary Applications, January 2021, DOI: 10.4018/978-1-7998-4945-2.ch004
2. **Enescu, A.**, Andrei, H., Diaconu, E., Ion, V., „*Numerical method for modeling the input –output characteristic in a cogeneration power plant*”, 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 27-29 June 2019, Pitesti, Romania, ISBN 978-1-7281-1625-9, DOI: 10.1109/ECAI46879.2019.9042095
 - 2.1. Iqra Javid, et al., Futuristic decentralised clean energy networks in view of inclusive-economic growth and sustainable society, April 2021 Journal of Cleaner Production 309(4), ScienceDirect ISSN 0959-6526 DOI: 10.1016/j.jclepro.2021.127304 WOS:000662983500004
3. Andrei, H., **Enescu, A.**, Diaconu, E., Ion, V., Udriou, I., *Data acquisition and modelling of cogeneration power plant parameters* IEEE-Advanced Topics in Electrical Engineering - ATEE, 28-30 May, 2019, Bucharest, Romania, ISBN 978-1-7281-0101-9, DOI: 10.1109/ATEE.2019.8724738
 - 3.1. Iqra Javid, et al., Futuristic decentralised clean energy networks in view of inclusive-economic growth and

sustainable society, April 2021 Journal of Cleaner Production 309(4), ScienceDirect ISSN 0959-6526 DOI: 10.1016/j.jclepro.2021.127304 WOS:000662983500004

4. Andrei, H., Ion, V., Diaconu, E., **Enescu, A.**, Udrioiu, I., *Energy consumption analysis of security systems for a residential consumer*, IEEE-Advanced Topics in Electrical Engineering - ATEE, 28-30 May, 2019, Bucharest, Romania, ISBN 978-1-7281-0101-9, DOI: 10.1109/ATEE.2019.8725002

- 4.1. Ivaylo Stoyanov, Teodor B. Iliev, Grigor Mihaylov, A Statistical Study of the Electricity Consumption of Household Consumers During the Spring Period in Ruse, Bulgaria, Conference: 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), DOI: 10.1109/ATEE52255.2021.9425312 WOS:000676164800145

- 4.2. Leo Rainer, Alan Meier and Robert Hosbach, Energy Use of Residential Safety, Security and Health Devices, Energy and Buildings 250(June), Science Direct Elsevier, DOI: 10.1016/j.enbuild.2021.111217 WOS:000692368000003

G. Citări in carti, reviste si volume ale unor manifestari stiintifice BDI

1. **Enescu, A.**, Andrei, H., Diaconu, E., Ion, V., „*Numerical method for modeling the input-output characteristic in a cogeneration power plant*”, 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 27-29 June 2019, Pitesti, Romania, ISBN 978-1-7281-1625-9, DOI: 10.1109/ECAI46879.2019.9042095

- 1.1. Anrui Li, Shi Su, Tong Han, Chunlin Yin, Lie Li, Linjie Chen, Xinkai Wang, Shichen Wang and Siyang Liu, Energy demand forecast in Yunnan Province based on Seq2Seq model, 2021 3rd Global Conference on Ecological Environment and Civil Engineering (GCEECE 2021), 2021, Volume 293, <https://doi.org/10.1051/e3sconf/202129302063>

2. Enescu, A., **Diaconu, E.**, "*Cogeneration Plant on Biomass-Case Study*", The Scientific Bulletin of Electrical Engineering Faculty, 2018, no. 2, pp. 7-11, DOI: <https://doi.org/10.1515/sbeef-2017-0028> ISSN(Online) 2286-2455
 - 2.1. Dmitry Kretoy, V. Kostyukov, The Natural Gas Cogeneration Units Feasibility Study, 2020 International Multi-Conference on Industrial Engineering and Modern Technologies (FarEastCon), October 2020, DOI: 10.1109/FarEastCon50210.2020.9271149
 - 2.2. D. Kretoy and V. Kostyukov, "The Economic Efficiency Of An Off-Grid Power Sources Implementation Based On A Medium Power Gas-Fired Reciprocating Units", 2021 International Conference on Electrotechnical Complexes and Systems (ICOECS), 2021, pp. 257-261, doi: 10.1109/ICOECS52783.2021.9657478
3. Andrei, H., Ion, V., Diaconu, E., **Enescu, A.**, Udriou, I., Energy consumption analysis of security systems for a residential consumer, IEEE-Advanced Topics in Electrical Engineering - ATEE, 28-30 May, 2019, Bucharest, Romania, ISBN 978-1-7281-0101-9, DOI: 10.1109/ATEE.2019.8725002
 - 3.1. Rosemarie V. Pelegrino, Janno Rhey C. Don, Adrian B. Lopez, Angelo John F. Tenorio, PIR Sensor activated camera for home security system using ATMmega328p, 2023 15th International Conference on Computer and Automation Engineering

14.08.2025

