F17

MEMORIU ȘTIINȚIFIC
Drd. Oprea Niculae

Studii de doctorat

Perioada: 2022-2026
Conducător științific: Prof.dr.ing. Radu - Florin Porumb
Domeniu: Inginerie Energetică
Titlul tezei de doctorat: Integrarea și funcționarea optimă a instalațiilor de stocare din sistemul energetic național în prezența surselor regenerabile

Activitate științifică

1. Dan PREOȚESCU, Simona-Vasilica OPREA, Adela BÂRA, Niculae OPREA, Osman Bülent TÖR *Data Analytics for the Transmission System Operators* – Database Systems Journal – dbjournal.ro - București 2020. https://www.dbjournal.ro/archive/31/31_12.pdf, Vol. XI, 2020, ISSN 2069 - 3230
2. *Machine learning in electricity fraud detection in smart grids with multivariate Gaussian distribution* – Sciendo.com/article 2021 https://doi.org/10.2478/picbe-2021-0049 - Autori Simona-Vasilica OPREA, Adela BÂRA, Niculae OPREA, WOS:000747987000021, ISSN 2502-0226
3. *How fast to avoid CO2 emissions. A holistic view on the RES, storage and non-RES replacement in Romania* – article Environment Research and Public Health – mdpi.com 2023 https://doi.org/10.3390/ijerph20065115 - Autori Simona-Vasilica OPREA, Adela BÂRA, Niculae OPREA, ISSN: 1660-4601
4. *Big Data Management and NoSQL Databases* – article "Ovidius" University Annals, Economic Sciences Series, Volume XXIII, Issue 1 /2023 https://stec.univ-ovidius.ro/html/anale/RO/2023-i1/Section%203/30.pdf – Autori Simona-Vasilica OPREA, Adela BÂRA, Niculae OPREA, ISSN 2393-3127
5. *Trading in the Quantum Era: Optimizing Bitcoin Gains and Energy Costs* – article for Petroleum-Gas University of Ploiești, project number GO-GICS-11063/June 08, 2023 Journal of Applied Economics, 2024, https://doi.org/10.1080/15140326.2024.2404795 - Autori Simona-Vasilica Oprea, Adela Bâra, Cristian Bucur, Bogdan-George Tudorică, Niculae Oprea, WOS:**001316049900001**, ISSN 1514-0326
6. *Integration of storage installations at prosumers in the presence of photovoltaic installations*, Buletin Științific Universitatea Politehnica București 2025, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezcc3_458203.pdf – Autori Niculae Oprea, Radu Porumb, WOS:001445507200029, ISSN 2286-3540
7. Alerts and Fraud Detection in Electricity Consumption Recorded by Smart Metering Systems. In: Ciurea, C., Boja, C., Pocatilu, P., Doinea, M. (eds) Education, Research and Business Technologies. Smart Innovation, Systems and Technologies, vol 276. Springer, Singapore. https://doi.org/10.1007/978-981-16-8866-9_8 – (2022). Autori Oprea, S.V., Bâra, A., Diaconiţa, V., Oprea, Niculae; ISSN 2190-3018
8. Analysing the forecast of electricity grid losses, Scientific Bulletin of Naval Academy, Vol. XXIV 2021, pg.88-96, 2021 https://www.researchgate.net/publication/355270787_Analysing_the_forecast_of_electricity_grid_losses –Dan PREOȚESCU, Simona-Vasilica OPREA, Adela BÂRA and Niculae OPREA, ISSN 2392-8956.

Student-doctorand
Oprea Niculae