Diseminarea rezultatelor proiectului în jurnale și conferințe internaionale

Lista articolelor publicate în jurnale

Nr crt	Articol	Editura	AIS Quartile
1.	Simona-Vasilica Oprea, Adela Bâra, **A signaling game-optimization algorithm for residential energy communities implemented at the edge-computing side**, Computers & Industrial Engineering, Volume 169, 2022, 108272, ISSN 0360-8352, https://doi.org/10.1016/j.cie.2022.108272, **indexat WoS**	Elsevier	Q1
2.	Oprea, S-V., Bâra, A., **Mind the gap between PV generation and residential load curves: Maximizing the roof-top PV usage for prosumers with an IoT-based Adaptive Optimization and Control Module**, Expert Systems with Applications, Volume 212, February 2023, 118828, https://doi.org/10.1016/j.eswa.2022.118828 - **indexat WoS**	Elsevier	Q1
3.	Bâra, A., Oprea, S.-V., & Ciurea, C.-E. (2023). **Improving the strategies of the market players using an AI-powered price forecast for electricity market**. *Technological and Economic Development of Economy*, 1-26. https://doi.org/10.3846/tede.2023.20251, **indexat WoS**	VILNIUS TECH	Q2
4.	Bâra, A. and Oprea, S.V. (2023), **A holistic view on business model-oriented energy communities**, *Kybernetes*, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/K-07-2023-1235, **indexat WoS**	Emerald Publishing Limited	Q3
5.	Simona-Vasilica OPREA, Adela BÂRA, Gabriela DOBRIȚA (ENE), Dragoș-Cătălin BARBU, **A Horizontal Tuning Framework for Machine Learning Algorithms Using a Microservice-based Architecture**, *Studies in Informatics and Control*, ISSN 1220-1766, vol. 32(3), pp. 31-43, 2023. https://doi.org/10.24846/v32i3y202303, https://sic.ici.ro/wp-content/uploads/2023/09/Art.-3-Issue-3-2023.pdf, **indexat WoS**	SIC	Q4
6.	Simona-Vasilica Oprea, Adela Bâra. **A stacked ensemble forecast for photovoltaic power plants combining deterministic and stochastic methods**. Applied Soft Computing, Volume 147, November 2023, Page 110781, https://doi.org/10.1016/j.asoc.2023.110781, **indexat WoS**	Elsevier	Q1
7.	Bâra, Adela, Simona-Vasilica Oprea, Cristian Bucur, and Bogdan-George Tudorică. „**Unraveling the Impact of Lockdowns on E-commerce: An Empirical Analysis of Google Analytics Data during 2019–2022**" *Journal of Theoretical and Applied Electronic Commerce Research* 18, no. 3: 1484-1510. https://doi.org/10.3390/jtaer18030075, **indexat WoS**	MDPI	Q2
8.	Bâra, A., Oprea, SV. & Tudorică, B.G. **From the East-European Regional Day-Ahead Markets to a Global Electricity Market**. *Computational Economics* (2023). https://doi.org/10.1007/s10614-023-10416-0 https://link.springer.com/article/10.1007/s10614-023-10416-0, **indexat WoS**	Springer	Q3
9.	Bâra, A., Oprea, SV. **Intelligent system to optimally trade at the interference of multiple crises**. *Applied Intelligence* (2023). https://doi.org/10.1007/s10489-023-04823-x https://link.springer.com/article/10.1007/s10489-023-04823-x, **indexat WoS**	Springer	Q2
10	Bâra, A. and Oprea, S.-V. (2023), **What makes electricity consumers change their behavior? Influence of attitude and perceived impact of DR programs on awareness**, *Kybernetes*. https://doi.org/10.1108/K-01-2023-0032, WOS:000994120700001, **indexat WoS**	Emerald Publishing Limited	Q3

11	Bâra Adela, Simona-Vasilica Oprea, and Irina Alexandra Georgescu, **Understanding Electricity Price Evolution – Day-Ahead Market Competitiveness in Romania**. *Journal of Business Economics and Management* 24 (2):221–244. https://doi.org/10.3846/jbem.2023.19050, **indexat WoS**	VILNIUS GEDIMINAS TECH UNIV	Q3
12	S. -V. Oprea, A. Bâra, A. -I. Andreescu and M. P. Cristescu, **Conceptual Architecture of a Blockchain Solution for E-Voting in Elections at the University Level**, in *IEEE Access*, doi: 10.1109/ACCESS.2023.3247964, https://ieeexplore.ieee.org/document/10049991, **indexat WoS**	IEEE	Q2
13	Bâra A, Oprea S-V, Oprea N. **How Fast to Avoid Carbon Emissions: A Holistic View on the RES, Storage and Non-RES Replacement in Romania**. *International Journal of Environmental Research and Public Health*. 2023; 20(6):5115. https://doi.org/10.3390/ijerph20065115, **indexat Scopus**	MDPI	Scopus
14	Bâra A, Oprea S-V, **On-grid and Off-grid Photovoltaic Systems Forecasting using a Hybrid Meta-learning Method,** *Knowledge and Information Systems*, Volume 66, pages 2575–2606, January 2024, WOS:001138337300001, **indexat WoS**	Springer	Q2
15	Bâra A, Oprea S-V, **A value sharing method for heterogeneous energy communities archetypes**, *iScience*, Volume 27, Issue 1, 19 January 2024, https://doi.org/10.1016/j.isci.2023.108687, WOS:001143554500001, **indexat WoS**	CellPress	Q1
16	Bâra Adela, Simona-Vasilica Oprea, **Enabling Coordination in Energy Communities: A Digital Twin Model**, *Energy Policy*, Volume 184, January 2024, https://doi.org/10.1016/j.enpol.2023.113910, WOS:001128156900001, **indexat WoS**	Elsevier	Q1
17	Simona-Vasilica Oprea, Adela Bâra, **Profiling public perception of emerging technologies: Gene editing, brain chips and exoskeletons. A data-analytics framework**, Heliyon, Volume 10, Issue 22, 30 November 2024, https://doi.org/10.1016/j.heliyon.2024.e40268, **indexat WoS**	CellPress	Q2
18	Adela Bâra , Simona-Vasilica Oprea, **An ensemble learning method for Bitcoin price prediction based on volatility indicators and trend**, Engineering Applications of Artificial Intelligence, Volume 133, Part A, July 2024, https://doi.org/10.1016/j.engappai.2024.107991, WOS:001185778300001, **indexat WoS**	Elsevier	Q1
19	Oprea, S.-V., Nica, I., Bâra, A., & Georgescu, I.-A, **Are skepticism and moderation dominating attitudes toward AI-based technologies?** American Journal of Economics and Sociology, 2024, 1–41. https://doi.org/10.1111/ajes.12565, WOS:001172029300001, **indexat WoS**	Wiley	Q2
20	Bâra, A., & Oprea, S.-V., **Embedding the weather prediction errors (WPE) into the photovoltaic (PV) forecasting method using deep learning,** Journal of Forecasting, 1–26, 2024, https://doi.org/10.1002/for.3064, WOS:001148012000001, **indexat WoS**	Wiley	Q2
21	Oprea, SV., Bâra, A., **Exploring excitement counterbalanced by concerns towards AI technology using a descriptive-prescriptive data processing method**. *Humanities and Social Sciences Communications* 11, 388 (2024). https://doi.org/10.1057/s41599-024-02926-5, WOS:001180921300002, **indexat WoS**	Springer	Q1
22	Bâra, A., Oprea, SV., **Machine Learning Algorithms for Power System Sign Classification and a Multivariate Stacked LSTM Model for Predicting the Electricity Imbalance Volume**. *International Journal of*	Springer	Q3

	Computational Intelligence Systems 17, 80 (2024). https://doi.org/10.1007/s44196-024-00464-1, WOS:001196972600002, **indexat WoS**		
23	Bâra, A., Oprea, SV., **Predicting day-ahead electricity market prices through the integration of macroeconomic factors and machine learning techniques**. *International Journal of Computational Intelligence Systems* 17, 10 (2024). https://doi.org/10.1007/s44196-023-00387-3, WOS:001142393400001**, indexat WoS**	Springer	Q3
24	Bâra, A., Oprea, SV. & Panait, M., **Insights into Bitcoin and energy nexus. A Bitcoin price prediction in bull and bear markets using a complex meta model and SQL analytical functions.** *Applied Intelligence* **54**, 5996–6024 (2024). https://doi.org/10.1007/s10489-024-05474-2, WOS:001231097300005, **indexat WoS**	Springer	Q2
25	Simona-Vasilica Oprea, Adela Bâra, **Detecting Malicious Uniform Resource Locators Using an Applied Intelligence Framework,** CMC - Computers, Materials & Continua Volume 79, Issue 3, 20 June 2024, Pages 3827-3853, https://doi.org/10.32604/cmc.2024.051598, WOS:001268169500017, **indexat WoS**	Tech Science Press	Q4
26	Oprea, SV., Bâra, A. & Georgescu, I.A., **Assessing the Dynamics of Ecological Footprint in Relation to Economic and Energy Factors: A Comparative Analysis of Finland and Japan**. *Journal of the Knowledge Economy* (2024). https://doi.org/10.1007/s13132-024-02312-1, WOS:001319485700001, **indexat WoS**	Springer	Q3
27	Simona-Vasilica Oprea , Adela Bâra, **Generative literature analysis on the rise of prosumers and their influence on the sustainable energy transition**, Utilities Policy 90 (2024) 101799, https://doi.org/10.1016/j.jup.2024.101799, WOS:001261253500001**, indexat WoS**	Elsevier	Q3
28	Oprea, SV., Georgescu, I.A. & Bâra, A. **Is Bitcoin ready to be a widespread payment method? Using price volatility and setting strategies for merchants**. *Electronic Commerce Research* 24, 1267–1305 (2024). https://doi.org/10.1007/s10660-024-09812-x, WOS:001155905100001, **indexat WoS**	Springer	Q2
29	A. Bâra, I. A. Georgescu, S. -V. Oprea, M. P. Cristescu, **Exploring the Dynamics of Brent Crude Oil, S&P500 and Bitcoin Prices Amid Economic Instability**, IEEE Access, vol. 12, pp. 31366-31385, 2024, doi: 10.1109/ACCESS.2024.3370029, WOS:001174640600001, **indexat WoS**	IEEE	Q2
30	A. -G. Văduva, M. Munteanu, S. -V. Oprea, A. Bâra and A. -M. Niculae, **Understanding Climate Change and Air Quality Over the Last Decade: Evidence From News and Weather Data Processing**, IEEE Access, vol. 11, pp. 144631-144648, 2023, doi: 10.1109/ACCESS.2023.3345466, WOS:001131870500001, **indexat WoS**	IEEE	Q2

Lista articolelor publicate în cadrul conferințelor internaționale

Nr crt	Articol
1.	Simona-Vasilica Oprea, Adela Bâra, Machine Learning Algorithms and PV Forecast for Off-Grid Prosumers Energy Management, THE INTERNATIONAL CONFERENCE "PRESENT ISSUES OF GLOBAL ECONOMY" - 19th Edition, PIGE 2022, 14-16 Iulie 2022, Constanța, România. Articolul a fost publicat în Ovidius University Annals, Economic Sciences Series, Ovidius University of Constanta, Faculty of Economic Sciences, vol. 0(1), pages 117-123, September 2022, ISSN: 2344-4614, Editura Ovidius University Press https://stec.univ-ovidius.ro/conferinte-detalii/the-international-conference-present-issues-of-global-economy-19th-edition-june-23th-25th-2022
2.	Ciurea Cristian, Simona-Vasilica Oprea, Digital Humanism and a Quantitative Analysis of Users Behavior in Virtual Exhibitions during the Pandemic Context, The Ninth International Conference on Information Technology and Quantitative Management (ITQM 2022), 9-11 Decembrie 2022, Beijing, China, http://itqm-meeting.org/2022/
3.	Simona-Vasilica Oprea, Adela Bâra, Why is more efficient to combine BeautifulSoup and Selenium in scraping for data under energy crisis, The International Conference on "Global Economy under Crisis" – 11th Edition (GEUC 2022), December, 15h-16th 2022, Constanța, România, https://www.stec.univ-ovidius.ro/conferinte-detalii/the-international-conference-global-economy-under-crisis-11th-edition-december-15th-16th-2022
4.	Bâra A, Oprea S-V, Photovoltaic systems forecast using machine learning algorithms and recurrent neural networks, Conferința Internațională The 9th International Scientific Conference SEA-CONF 2023, Constanța, România, 17 - 20 mai 2023
5.	Oprea S-V, Bâra A, Niculae A, Electricity Price Evolution and the Disruptive Economic and Geopolitical Context on the Spot Market. A Romanian Case Study, The 9th edition of BASIQ International Conference on "New Trends in Sustainable Business and Consumption" – BASIQ 2023, Constanța, România, 7 - 11 iunie 2023
6.	Văduva A.G., Oprea S-V, Bâra A, Understanding Customers' Opinion using Web Scraping and Natural Language Processing, Conferința Internațională „Present Issues of Global Economy" (PIGE) – ediția a 20-a, Constanța, România, 29 iunie – 1 iulie 2023
7.	Tanasă A.M., Oprea S-V, Bâra A, Web Scraping and Review Analytics. Extracting Insigns from Commercial Data, Conferința Internațională „Global Economy Under Crisis" (GEUC) – ediția a XII-a, Constanța, România, 12 – 15 decembrie 2023
8.	Niculae A, Bâra A, Căuniac D., Oprea S-V, euAirQuality: Real-time Visualization and Analysis of European Air Quality, The 9th IEEE International Smart Cities Conference (ISC2 2023), Bucharest, Romania, 24 – 27 September 2023
9.	Barbu D., Bâra A, Oprea S-V, Impact of Electronic Cash Registers on tax collection, The 22nd International Conference on Informatics in Economy (IE 2023), Bucharest, Romania, 25-26 May 2023, publicat în Proceedings of 22nd International Conference on Informatics in Economy (IE 2023), Springer, 2024
10.	Ciurea C., Pocatilu P., Oprea S-V, Attractiveness of Virtual Exhibitions in Cultural Institutions in the Post-pandemic Context: A Case Study, 10th International Conference on Information Technology and Quantitative Management, (ITQM 2023), University of Oxford, United Kingdom, August 12-14, 2023, Procedia Computer Science (Elsevier), 221 (2023) 308–315
11.	Oprea S-V, Bâra A, Bitcoin Price Forecasting using Blockchain Metrics, Ensemble Machine Learning Algorithms and Facebook Prophet, Conferința Internațională The 10th International Scientific Conference SEA-CONF 2024, 17 - 19 May 2024, Constanța, România, va fi publicat în SCIENTIFIC BULLETIN, Volume XXVII – 2024, ISSN 1454 - 864X, Issue no. 2
12.	Alin-Gabriel VĂDUVA, Anca-Ioana ANDREESCU, Text summarization and sentiment analysis pipelines using large language models for financial news, The 23rd International Conference on Informatics in Economy (IE 2024), Timișoara, România, May 23-24, 2024

13.	Diana Andreea CĂUNIAC, Andreea Alexandra CÎRNARU, Revolutionizing healthcare: harnessing natural language processing and big data for predictive disease diagnosis, The 23rd International Conference on Informatics in Economy (IE 2024), Timișoara, România, May 23-24, 2024
14.	Marina Virginia Ștefan, Simona-Vasilica Oprea, Adela Bâra, Understanding Citizens' Attitudes Towards Energy and Climate issues. A Comprehensive Survey Analysis, Conferința Internațională „Present Issues of Global Economy" (PIGE) – ediția a 21-a, Constanța, România, 20 - 22 iunie 2024 "Ovidius" University Annals, Economic Sciences Series, ISSN 2393-3127, Volume XXIV, Issue 1, 2024
15.	Andreea Alexandra Cîrnaru, Diana Căuniac, Predictive Modeling of Energy Usage in Smart Homes, 28th International Conference on System Theory, Control and Computing (ICSTCC 2024), October 10-12, 2024, Sinaia, Romania