



Facultatea de Științe Economice

Raport centralizat al rezultatelor activității de cercetare – 2025

1. ARTICOLE INDEXATE ISI

1. Rosca Cosmina - Mihaela, Stancu Adrian, Tănase Marius Radu. "A Comparative Study of Azure Custom Vision Versus Google Vision API Integrated into AI Custom Models Using Object Classification for Residential Waste". Applied Sciences-Basel, vol. 15, 36 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15073869, WOS 001463719300001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15073869>
2. Rosca Cosmina - Mihaela, Stancu Adrian. "A Comprehensive Review of Machine Learning Models for Optimizing Wind Power Processes". Applied Sciences-Basel, vol. 15, 38 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15073758, WOS 001463686800001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15073758>
3. Dinita Alin, Rosca Cosmina - Mihaela, Tanase Maria, Stancu Adrian. "A Comprehensive Review on Bridging the Research Gap in AI-Driven Material Simulation for FRP Composites". CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol. 144, 53 pag., ISSN 1526-1492, eISSN 1526-1506, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.32604/cmes.2025.066276, WOS 001530810800001, tip cercetare ISI Rosu, link: <https://www.techscience.com/CMES/online/detail/23777>
4. Rosca Cosmina - Mihaela, Stancu Adrian. "A Review of Neuro-ML Breakthroughs in Addressing Neurological Disorders". Applied Sciences-Basel, vol. 15, 48 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15105442, WOS 001495797100001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15105442>
5. Tanasescu Ana, Bucur Cristian, Andrei Jean Vasile, Tudorica Bogdan, Paraschiv Dorel Mihail, Dusmanescu Dorel. "A deep q-networks model for optimising decision-making process in the context of energy transition modelling". Environmental Research Communications, vol. 7, 32 pag., ISSN 2515-7620, eISSN 2515-7620, clasificare ENVIRONMENTAL SCIENCES - SCIE, DOI 10.1088/2515-7620/adf530, WOS 001563018200001, tip cercetare ISI Galben, link: <https://iopscience.iop.org/article/10.1088/2515-7620/adf530>
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8. Rosca Cosmina - Mihaela, Stancu Adrian. *"Anomaly Detection in Elderly Health Monitoring via IoT for Timely Interventions"*. Applied Sciences-Basel, vol. 15, 32 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15137272, WOS 001526163700001, tip cercetare ISI Galben, link: <https://doi.org/10.3390/app15137272>
9. Rosca Cosmina - Mihaela, Stancu Adrian, Iovanovici Emilian Marian. *"Applications of Machine Learning Algorithms in Geriatrics"*. Applied Sciences-Basel, vol. 15, 35 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15158699, WOS 001549027200001, tip cercetare ISI Galben, link: <https://doi.org/10.3390/app15158699>
10. Rosca Cosmina - Mihaela, Radulescu Gabriel, Stancu Adrian. *"Artificial Intelligence of Things Infrastructure for Quality Control in Cast Manufacturing Environments Shedding Light on Industry Changes"*. Applied Sciences-Basel, vol. 15, 30 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15042068, WOS 001429889600001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15042068>
11. Neacsă Adrian, Ramadan Ibrahim Naim, Dinita Alin, Iacob Stefan Virgil, Ilinca Costin Nicolae, Laudăcescu Eugen Victor. *"Can Non-Phase-Transformation Heat Treatments Improve the Strength Properties of Materials?"*. Materials, vol. 18, 21 pag., eISSN 1996-1944, clasificare CHEMISTRY, PHYSICAL - SCIE, DOI <https://doi.org/10.3390/ma18071599>, WOS WOS:001463896200001, tip cercetare ISI Rosu, link: <https://www.mdpi.com/1996-1944/18/7/1599>
12. Neacsă Adrian, Dinita Alin, Iacob Stefan Virgil. *"Can the Dimensional Optimisation of 3D FDM-Manufactured Parts Be a Solution for a Correct Design?"*. Materials, vol. 18 (2), 27 pag., eISSN 1996-1944, clasificare CHEMISTRY, PHYSICAL - SCIE, DOI <https://doi.org/10.3390/ma18020408>, WOS WOS:001404402700001, tip cercetare ISI Rosu, link: <https://www.mdpi.com/1996-1944/18/2/408>
13. Rosca Cosmina - Mihaela, Carbureanu Madalina, Stancu Adrian. *"Data-Driven Approaches for Predicting and Forecasting Air Quality in Urban Areas"*. Applied Sciences-Basel, vol. 15, 36 pag., ISSN 2076-3417, eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15084390, WOS 001474680900001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15084390>
14. Tanăsescu Ana, Panait Mirela, Bucur Cristian, Tudorica Bogdan. *"Decoding ICT trends: comparative insights into Romania's economic, employment and innovation dynamics"*. Business Process Management Journal, 30 pag., ISSN 1463-7154, eISSN 1758-4116, clasificare BUSINESS - SSCI, DOI 10.1108/BPMJ-04-2025-0502, WOS 001609859500001, tip cercetare ISI Rosu, link: <https://doi.org/10.1108/BPMJ-04-2025-0502>



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16. Iacovoiu Viorela, Panait Mirela, Stancu Adrian, Jacob Stefan Virgil. *"Driving Factors of Final Energy Consumption in the European Union: A Comprehensive Analysis"*. Energies, vol. 18, 25 pag., eISSN 1996-1073, clasificare ENERGY & FUELS - SCIE, DOI 10.3390/en18071703, WOS 001465661800001, tip cercetare ISI Alb, link: <https://doi.org/10.3390/en18071703>
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18. Dobrowolski, Zbysław, Grzegorz Drozdowski, Laeeq Razzak Janjua, Panait Mirela, Jacek Szoltysek. *"Econometric Analysis of BRICS Countries' Activities in 1990–2022: Seeking Evidence of Sustainability"*. Energies, eISSN 1996-1073, clasificare ENERGY & FUELS - SCIE, tip cercetare ISI Alb,
19. Rosca Cosmina - Mihaela, Stancu Adrian. *"Emerging Trends in AI-Based Soil Contamination Monitoring and Prevention"*. Agriculture-Basel, vol. 15, 30 pag., eISSN 2077-0472, clasificare AGRONOMY - SCIE, DOI 10.3390/agriculture15121280, WOS 001515155700001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/agriculture15121280>
20. Daniel Ștefan Armeanu, Ștefan Cristian Gherghina, Andrei Jean Vasile, Camelia Cătălina Joldeș. *"Exploring connectedness among clean energy, cleantech, and climate change: empirical evidence in the wake of contemporary asymmetrical crisis"*. Mitigation and Adaptation Strategies for Global Change, vol. 30, ISSN 1381-2386, eISSN 1573-1596, clasificare ENVIRONMENTAL SCIENCES - SCIE, DOI <https://doi.org/10.1007/s11027-025-10233-w>, WOS 001544086200001, tip cercetare ISI Galben, link: <https://doi.org/10.1007/s11027-025-10233-w>
21. Dinita Alin, Rosca Cosmina - Mihaela, Tanase Maria, Stancu Adrian, Portoaca (Gheorghe) Ileana Alexandra. *"Exploring the Synergy of Machine Learning Integration in 3D Printing and Additive Manufacturing"*. IEEE Access, vol. 13, 18 pag., ISSN 2169-3536, eISSN 2169-3536, clasificare ENGINEERING, ELECTRICAL & ELECTRONIC - SCIE, DOI 10.1109/ACCESS.2025.3633943, tip cercetare ISI Galben, link: <https://ieeexplore.ieee.org/document/11251177>
22. Rosca Cosmina - Mihaela, Stancu Adrian. *"Innovative AIoT Solutions for PET Waste Collection in the Circular Economy Towards a Sustainable Future"*. Applied Sciences-Basel, vol. 15, 36 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15137353, WOS 001526163300001, tip cercetare ISI Galben, link: <https://doi.org/10.3390/app15137353>



23. Rosca Cosmina - Mihaela, Stancu Adrian. *"Integration of AI in Self-Powered IoT Sensor Systems"*. Applied Sciences-Basel, vol. 15, 48 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15137008, WOS 001528679000001, tip cercetare ISI Galben, link: <https://doi.org/10.3390/app15137008>
24. Rădulescu Magdalena, Mirela Panait, Kamel Si Mohammed, Hind Aloffaysan, Syed Ale Raza Shah, Bogdan Marza. *"LCC hypothesis in the context of environmental taxes, renewable energy, and trade flow in Romania."* ENERGY EXPLORATION & EXPLOITATION, ISSN 0144-5987, eISSN 2048-4054, clasificare ENERGY & FUELS - SCIE, tip cercetare ISI Alb, link: <https://journals.sagepub.com/doi/pdf/10.1177/01445987251346986>
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26. Stancu Adrian, Panait Mirela. *"Marketing Strategy Metamorphosis Under the Impact of Artificial Intelligence Services"*. Systems, vol. 13, 25 pag., eISSN 2079-8954, clasificare SOCIAL SCIENCES, INTERDISCIPLINARY - SSCI, DOI 10.3390/systems13040227, WOS 001475705300001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/systems13040227>
27. Chis Timur Vasile, Anca ANTONOV, Al-Gburi Hasan ALI MOSLEH, Popescu Catalin, Cristina VLĂDESCU. *"Modeling the Risk of Abnormal Functioning of Oil and Gas Well Breakout Preventers"*. Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, vol. 68 (Issue III) Special Number, 7 pag., ISSN 1221-5872, eISSN 2393-2988, clasificare MECHANICS - ESCI, DOI n/d, WOS 001318657100028, tip cercetare ISI Alb, link: <https://atna-mam.utcluj.ro/index.php/Acta/issue/archive>
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29. Tanase Maria, Portoaca (Gheorghe) Ileana Alexandra, Zeca Ecaterina Daniela, Paunescu Loredana Maria. *"Optimizing Pipeline Bridge Components Through FEA Technical Validation"*. Buildings, vol. 14(12), 6 pag., eISSN 2075-5309, clasificare CONSTRUCTION & BUILDING TECHNOLOGY - SCIE, DOI <https://doi.org/10.3390/buildings14123935>, tip cercetare ISI Galben, link: <https://www.mdpi.com/2075-5309/14/12/3935>
30. Isbasoiu Dan, Volosevici Dana. *"Organizational Determinants of Unsafe Acts: An Exploratory Study in Refinery Maintenance Operations"*. Safety, vol. 11(4), 30 pag., eISSN 2313-576X, clasificare PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH - ESCI, DOI 10.3390/safety11040102, tip cercetare ISI Alb, link: <https://www.mdpi.com/2313-576X/11/4/102>
31. Rosca Cosmina - Mihaela, Stancu Adrian. *"Quality assessment of GPT-3.5 and Gemini 1.0 Pro for SQL syntax"*. COMPUTER STANDARDS & INTERFACES, vol. 95, 15 pag., ISSN



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35. Rosca Cosmina - Mihaela, Stancu Adrian, Iovanovici Emilian Marian. *"The New Paradigm of Deepfake Detection at the Text Level"*. Applied Sciences-Basel, vol. 15, 28 pag., eISSN 2076-3417, clasificare ENGINEERING, MULTIDISCIPLINARY - SCIE, DOI 10.3390/app15052560, WOS 001442375000001, tip cercetare ISI Rosu, link: <https://doi.org/10.3390/app15052560>
36. Andrei Jean Vasile, Armenau Stefan Daniel, Ștefan Cristian Gherghina, Camelia Cătălina Joldeș. *"The nexus between CO2 emissions, renewable energy consumption, foreign direct investment, and economic growth: evidence across different income groups of countries"*. Environmental Research Communications, vol. 7, 21 pag., ISSN 2515-7620, eISSN 2515-7620, clasificare ENVIRONMENTAL SCIENCES - SCIE, DOI 0.1088/2515-7620/ad8fff, WOS 001436960300001, tip cercetare ISI Galben, link: <https://iopscience.iop.org/article/10.1088/2515-7620/ad8fff>

2. ARTICOLE INDEXATE BDI ȘI ARTICOLE PREZENTATE LA CONFERINȚE

1. Diana Joita, Panait Mirela, Carmen-Elena Dobrotă, Raquel Fernández-González, Eugenia Bușmachi. *"EUROPEAN FUNDING FOR ENERGY TRANSITION. OPPORTUNITIES AND CHALLENGES"*. Revista de studii financiare, tip cercetare BDI,
2. Cristina Vereș, Loredana Maria Păunescu, Mihai Aniței. *"A Prerequisite for Digitization in the Automotive Industry"*. 12th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception and Artificial Intelligence – ICSCCW, vol. volume 1, 22-29 pag., DOI https://doi.org/10.1007/978-3-031-94788-9_3, tip cercetare BDI, link: https://doi.org/10.1007/978-3-031-94788-9_3
3. Popescu Catalin, Panait Mirela, Radulescu Irina. *"Bridging Innovation and Enterprise in Today's High-Tech Entrepreneurship: A Literature Review Study"*. Proceedings of the 45th International Business Information Management Association (IBIMA), ISSN 2767-9640,



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- clasificare Business, Marketing, Management, and Human Resources, tip cercetare BDI, link: <https://ibima.org/conference/45th-ibima-conference/#ffs-tabbed-15>
4. Popescu Catalin, Panait Mirela, Radulescu Irina. *"Bridging Innovation and Enterprise in Today's High-Tech Entrepreneurship: A Literature Review Study"*. 45 th edition of IBIMA, 25-26 Cordoba, Spain, tip cercetare Alte conferinte, reviste, Keynote Speaker,
 5. Teodorescu Ana Maria, Dumitru Ileana. *"Comparative analysis of the purchasing activity versus the selling activity within electronic commerce"*. The International Conference Resilience and Competitiveness of the National Economies - Under the Sign of Creativity, Crisis and Conflicts - RESILNAT-3C, tip cercetare Alte conferinte, reviste, Keynote Speaker, link: <https://ien.ro/content/resilnat-3c-conference>
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 7. Fernández-González, Raquel, Félix Puime-Guillén, Pablo Agregán Pérez, Panait Mirela. *"Decarbonizing Europe: the Role of Green Hydrogen in Achieving Climate Goals"*. 2025 International Conference on Clean Electrical Power (ICCEP), pp. 1126-1129. IEEE, 2025., tip cercetare A* Core, ISI Proceedings, IEEE Proceedings, Scopus, ESCI,
 8. Firas Al Balas, Dalya Al. Nore, Crenguța-Ileana Sinisi, Loredana Maria Păunescu. *"Detecting Anomaly Attacks in Software Defined Networking Using Machine Learning with Feature Selection Method"*. Conference on Cybersecurity and AI-Based Systems (Cyber-AI), Varna, Bulgaria, vol. 1, 170-174 pag., DOI 10.1109/Cyber-AI66431.2025.11233379, tip cercetare BDI, link: <https://ieeexplore.ieee.org/document/11233379>
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 11. Panait Mirela, Tanasescu Ana. *"From fossil fuels to green energy: how oil and gas giants are transforming in the context of the transition to low carbon economy"*. EDaSS – Economic Development and Social Sustainability, Niccolo' Cusano University, Rome, Italy, 3-4 April 2025, tip cercetare Alte conferinte, reviste, Keynote Speaker,
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3. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

1. Tudorica Daniela, Tudorica Bogdan. *"Cercetări operaționale"*. Editura UPG, ISBN 978-973-719-941-6, 2 autori, tip cercetare Cărți publicate la editurile naționale
2. Janjua, Laeeq Razzak, Panait Mirela, Raquel Fernández-González, Félix Puime-Guillén. *"E-Waste Recycling Revolution: A Fresh Inside from Determinant Factors in European Countries"*. Springer Nature, ISBN 978-981-96-5568-7, 4 autori, tip cercetare Volum/Capitol carte publicata la edituri internaționale de prestigiu
3. Janjua, Laeeq Razzak, Laura Elly Naghi, Panait Mirela, Marian Siminică. *"From Shadows to Spotlight in Current Era: An Insight into the Informal Economy's Influence on Growth Under Governmental Oversight in Global South Fatf Grey List States"*. Springer Nature, ISBN 978-981-96-4268-7, 4 autori, tip cercetare Volum/Capitol carte publicata la edituri internaționale de prestigiu
4. Rosca Cosmina - Mihaela, Stancu Adrian. *"Impact of Industry 6.0 on Human Cognitive Behavior - <https://doi.org/10.1002/9781394372775.ch3>"*. ISTE, Wiley, ISBN 978-1-83669-029-0, 2 autori, tip cercetare Volum/Capitol carte publicata la edituri internaționale de prestigiu
5. Petrescu Gabriel Marius, Popovici Aristia Ioana, Burlacu Andrei, Isbasoiu Dan, Laudacescu Eugen Victor, Dumitru Teodor, Tanase Maria. *"Modeling of Flight-Specific Degradation Phenomena in Rotary Dryers Used in the Asphalt Industry. In Lubrication Science - Challenges and Emerging Technologies"*. Intech, ISBN 10.5772/intechopen.1011562, 7 autori, tip cercetare Volum/Capitol carte publicata la edituri internaționale de prestigiu
6. Panait Mirela, Răzvan Ionescu, Eglantina Hysa, Patrick Blessinger. *"Powering the Future: Green Energy and Sustainable Development in Universities"*. Springer Nature, ISBN 978-3-031-84962-6, 4 autori, tip cercetare Volum/Capitol carte publicata la edituri internaționale de prestigiu

4. CONTRACTE DE CERCETARE

7. Contract nr. 18354/2025. Tema: Proiectarea și implementarea unui model de potrivire semantică bazat pe înțelegerea limbajului natural pentru asistență automată. Beneficiar: NEO WAVE EUROPE SRL PUCHENII MARI. Director: Rosca Cosmina-Mihaela. Perioada: 21.07.2025- 05.09.2025.



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8. Contract nr. 11730/22.05.2025. Tema: Analiza nevoilor din comunitatea ploieșteană. Beneficiar: Fundația Comunitară Prahova. Director: Isbasoiu Gheorghe Dan. Perioada: 23.05-30.05.