

**L I S T A**  
**lucrărilor științifice și a contractelor de cercetare**  
**2020-2026**

**A. Cărți și capitole în cărți**

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Carte	Autor
1. Chiranjibe Jana, Madhumangal Pal, Valentina Emilia Balas, Ronald R. Yager, Picture Fuzzy Logic and Its Applications in Decision Making Problems, Elsevier, 2023, ISBN: 9780443220241, <a href="https://shop.elsevier.com/books/picture-fuzzy-logic-and-its-applications-in-decision-making-problems/jana/978-0-443-22024-1">https://shop.elsevier.com/books/picture-fuzzy-logic-and-its-applications-in-decision-making-problems/jana/978-0-443-22024-1</a>	Valentina Emilia Balas
2. Ionescu, O., Dumitru V., Pricop E., Pircalabu S., Innovative Hardware-Based Cybersecurity Solutions, capitol publicat în Pricop E., Fattahi J., Dutta N., Ibrahim M. (Eds.) Recent Developments on Industrial Control Systems Resilience, Seria Studies in Systems, Decision and Control, vol 255, Editura Springer Nature Switzerland AG, Cham, Switzerland, ISBN: 978-3-030-31327-2, 2020, pag. 283-299, DOI: <a href="https://doi.org/10.1007/978-3-030-31328-9_12">https://doi.org/10.1007/978-3-030-31328-9_12</a>	Ionescu Octavian Narcis
3. Rădulescu, G. 2. Risks Assessment of Critical Industrial Control Systems. In: Recent Developments on Industrial Control Systems Resilience. Springer Series, "Studies in Systems, Decision and Control", Vol. 255, Ed. Pricop, E., Fattahi, J., Dutta, N., Ibrahim, M., Springer International Publishing, ISBN 978-3-030-31327-2 (hardcover), 978-3-030-31328-9 (eBook), 2020. <a href="https://www.springer.com/gp/book/9783030313272">https://www.springer.com/gp/book/9783030313272</a>	Rădulescu, G
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2. Ionescu, O. Productia de energie electrica din resurse regenerabile – biogaz, Editura Universității Petrol – Gaze din Ploiești, Ploiești, 2022	Ionescu Octavian Narcis

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4. Luminita Duta, Dumitru Enache, Decision Support Systems for Reverse Logistics in Industry 4.0, in Book: Decision Making and Decision Support in the Information Era, Studies in Systems, Decision and Control, Vol. 534, Valentina Emilia Balas et al. (Eds), DOI 10.1007/978-3-031-62158-1_7, ISBN978-3-031-62157-4, 2024	Luminita Duta
5. Oprea M., Programare orientată pe obiecte – Exemple în limbajele C++, C# și Java, Editura Matrix Rom, București, 2023. <a href="http://www.matrixrom.ro">http://www.matrixrom.ro</a>	Oprea Mihaela
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8. Oprea M., Carbureanu M., Programare orientată pe obiecte în limbajul Java – îndrumar de laborator, Editura UPG Ploiești, 2024.	Oprea Mihaela
9. Oprea M., Inteligență artificială – Îndrumar de proiect, Editura MatrixRom București, ISBN 978- 606-25-0765-7, 2022. <a href="http://www.matrixrom.ro">http://www.matrixrom.ro</a>	Oprea Mihaela
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11.Rădulescu, G. Programarea în limbaje de asamblare. Noțiuni teoretice și practice asociate limbajului familiei Intel® 80x86 – manual de programare. Volumul I. Editura Universității Petrol-Gaze din Ploiești (ISBN 978-973-719-889-1 GENERAL, ISBN 978-973-719-890-7 VOL. I), 278 pag., 2023. <a href="http://biblioteca.upg-ploiesti.ro/alice/AfWilnq.dll?Search">http://biblioteca.upg-ploiesti.ro/alice/AfWilnq.dll?Search</a>	Radulescu Gabriel
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C. **Lucrări indexate ISI/BDI**

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2. Alexuta, D.; Balas, V. E.; Balas, M. M. (2025). On the Three-Tank Aquaponic Configuration, International Journal of Computers Communications & Control, 20(2), 7032, 2025. <a href="https://doi.org/10.15837/ijccc.2025.2.7032">https://doi.org/10.15837/ijccc.2025.2.7032</a> , Q3	Valentina Balas	Emilia
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5. Dana Rad , Nicolae Paraschiv , Csaba Kiss 3, Valentina Emilia Balas, Cornel Barna , Physiological Reactions Profiling in Polygraph Testing: Insights from Fuzzy C-Means Clustering Analysis, Volume 21, Issue 10, Acta Polytechnica Hungarica, 2024, pag. 365-377, Q3	Valentina Balas	Emilia
6. Sanjiban Sekhar Roy, Ching-Hsien Hsu, Akash Samaran, Ranjan Goyal, Arindam Pande and Valentina E. Balas, Vessels Segmentation in Angiograms Using Convolutional Neural Network: A Deep Learning Based Approach, CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, ISSN:1526-1492 (print), Volume 136, Issue 1, pag. 241-255, 2023, <b>Q2</b>	Valentina Balas	Emilia
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<p><b>10.</b> Sayooj Aby Jose, R. Raja, J. Alzabut, G. Rajchakit, Jinde Cao and Valentina E. Balas, Mathematical modeling on transmission and optimal control strategies of corruption dynamics, Nonlinear Dynamics, 2022, pag. 1-19. IF = 5,022 - <b>Q1</b></p>	<p>Valentina Balas Emilia</p>
<p><b>11.</b> Jose Sayooj Aby; Raja Ramachandran; Zhu Quanxin; Alzabut Jihad, Niezabitowski Michal; Balas, Valentina E., Impact of strong determination and awareness on substance addictions: A mathematical modeling approach, Mathematical Methods in the Applied Sciences, DOI 10.1002/mma.7859; Early Access OCT 2021, Indexed 2021-11-11; Document Type Article; Early Access, Accession Number WOS:000712741600001, ISSN 0170-4214, eISSN 1099-1476 Special Issue, IF = 3,01 - <b>Q1</b></p>	<p>Valentina Emilia Balas</p>
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<p><b>13.</b> Asad Muhammad Usman; G, Jason; Farooq Umar; Balas Valentina E. (Corresponding author); Chen Zheng; Chang Chunqi; Hanif Athar, A Composite State Convergence Scheme for Multilateral Teleoperation Systems, Studies in Informatics and Control, Volume 30; Issue 2; Page 33-42, DOI 10.24846/v30i2y202103, Published JUN 2021; Indexed 2021-07-15, Accession Number WOS:000665728800003 IF = 1,649 – <b>Q3</b></p>	<p>Valentina Emilia Balas</p>
<p><b>14.</b> Albahli Saleh; Rauf Hafiz Tayyab; Algozaibi Abdulelah, Balas Valentina Emilia (Corresponding author), AI-driven deep CNN approach for multi-label pathology classification using chest X-Rays, Peerj Computer Science, Peerj Computer Science, Article Number e495, DOI 10.7717/peerj-cs.495, Published APR 20 2021, Indexed 2021-05-24 Accession Number: WOS:000645430200001, eISSN 2376-5992 IF = 1,392 - <b>Q1</b></p>	<p>Valentina Emilia Balas</p>
<p><b>15.</b> Venkatraman Yegnanarayanan; Narayanaa Y. Krithicaa; Balas Valentina E.; Rad Dana, Graph Theory Applications to Comprehend Epidemics Spread of Disease, BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE, Volume 12, Issue 2, Page 161-177, DOI 10.18662/brain/12.2/198; Published JUN 2021 Indexed 2021-09-02, Accession Number WOS:000688360400010, ISSN 2067-3957 ESCI, IF=0</p>	<p>Valentina Emilia Balas</p>
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<p><b>18.</b> Suchea, MP; Tudose, IV; Romanitan, C ; Pachi, C; Popescu, M; Mouratis, K ; Manica, M Antohe, S ; Couris, S ; Zisopol, DG, Ionescu, ON ; Koudoumas, E Study of evolution for 3D structured surface with nano-balls and walls-like features with thickness variation for WO<sub>3</sub> thin films made by spray deposition, SCIENTIFIC REPORTS Volume15 Issue1 DOI10.1038/s41598-025-88121-1 ISSN 2045-2322 WOS:001414693700037 IF=3.8 Naut=12 <b>Q1</b></p>	Ionescu Octavian Narcis
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<p><b>20.</b> Pistritu, F ; Gheorghe,; Ion, M; Brincoveanu, O; Romanitan, C; Suchea, MP ; Schiopu, P; Ionescu, ON . On the Development of a New Flexible Pressure Sensor, Published: 29 June 2024 Micromachines 2024, 15(7), 847 eISSN2072-666X; <a href="https://doi.org/10.3390/mi15070847">https://doi.org/10.3390/mi15070847</a> <a href="https://www.mdpi.com/2072-666X/15/7/847">https://www.mdpi.com/2072-666X/15/7/847</a> <b>Q2</b></p>	Ionescu Octavian Narcis
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<p><b>23.</b> Tudose, I., Mouratis, K., Ionescu, O., Romanitan, C., Pachi, C., Tutunaru O, Suchea, M., Koudoumas, E; Comparative Study of Graphene Nanoplatelets and Multiwall Carbon Nanotubes-Polypropylene Composite Materials for Electromagnetic Shielding, Nanomaterials 2022, 12(14), 2411; e ISSN 2079-4991</p>	Ionescu Octavian Narcis

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<p><b>25.</b> Iliescu F, Hong L.T. , Toh JM, , Suche MP, Ionescu O,Iliescu C.Early Notice Pointer, an IoT-like Platform for Point-of-Care Feet and Body Balance Screening, <i>Journals Micromachines</i>, Volume 13, Issue 5, 10.3390/mi13050682, 13(5), 682; <a href="https://doi.org/10.3390/mi13050682">https://doi.org/10.3390/mi13050682</a> (registering DOI), ISSN: 2072-666X <a href="https://www.mdpi.com/2072-666X/13/5/682">https://www.mdpi.com/2072-666X/13/5/682</a> WOS:000802457100001 <b>Q2</b></p>	Ionescu Octavian Narcis
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<p><b>29.</b> Ionescu, O., Cernica, I, Manea, E,Parvulescu, C, Istrate, A, Ionescu, G, Suche, MP, Integration of Micro-Structured Photovoltaic Cells into the Ultra-Light Wing Structure for Extended Range Unmanned Aerial Vehicles, <i>APPLIED SCIENCES-BASEL</i>, Volume11, Issue22,Article Number10890, DOI10.3390/app112210890, Published NOV 2021, Indexed2021-12-05. WOS:000724409500001 <a href="https://www.mdpi.com/2076-3417/11/22/10890">https://www.mdpi.com/2076-3417/11/22/10890</a> WOS:000724409500001 <b>Q2</b></p>	Ionescu Octavian Narcis

<p><b>30.</b> Bunea, A., Dedi, V., Laszlo, E., Pistritu, F., Carp, M., Iliescu, F., Ionescu, O., Iliescu, C; E-Skin: The Dawn of a New Era of On-Body Monitoring Systems, MICROMACHINES, Volume12, Issue 9, Article Number1091, DOI10.3390/mi12091091, Published SEP 2021, <a href="https://www.mdpi.com/2072-666X/12/9/1091">https://www.mdpi.com/2072-666X/12/9/1091</a> WOS:000701080700001 <b>Q2</b></p>	Ionescu Octavian Narcis
<p><b>31.</b> Ion, M., Dinulescu, M., Fartat, B., Savin, M., Ionescu, O., Moldovan, C., Design and Fabrication of a New Wearable Pressure Sensor for Blood Pressure Monitoring Sensors, Sensors 2021, 21(6), 2075; <a href="https://doi.org/10.3390/s21062075">https://doi.org/10.3390/s21062075</a> <a href="https://www.mdpi.com/1424-8220/21/6/2075/pdf">https://www.mdpi.com/1424-8220/21/6/2075/pdf</a> WOS:000652715000001 <b>Q2</b></p>	Ionescu Octavian Narcis
<p><b>32.</b> Bardeanu, H; Matei, F; Popescu, PA; Ionescu, O; Jurcoane, S Improving A Biogas Plant Parameters In The Conversion Context Of Replacing The Corn Silo With Agri-Food Wastes scientific Papers-Series E-Land Reclamation Earth Observation &amp; Surveying Environmental Engineering, Volume10, Page17-23, Published2021, Indexed2021-12-18/, <a href="http://landreclamationjournal.usamv.ro/pdf/2021/Art2.pdf">http://landreclamationjournal.usamv.ro/pdf/2021/Art2.pdf</a> WOS:000704605600002</p>	Ionescu Octavian Narcis
<p><b>33.</b> Paun, C; Tomescu, R; Parvulescu, C; Ionescu, O; Gavrilă, DE; Cristea, D Microheater optimized for the integration with metasurface-based IR sources for gas sensing application, Romanian Journal Of Information Science And Technology, Volume24, Issue2, Page201-212, Special IssueSI, Published2021, Indexed2021-07-09record/<a href="https://www.romjist.ro/full-texts/paper688.pdf">https://www.romjist.ro/full-texts/paper688.pdf</a> WOS:000668010700005</p>	Ionescu Octavian Narcis
<p><b>34.</b> Marinescu, R., Șerban, B., Cobianu, C., Dumbrăvescu, N., Ionescu, O., Buiu, O., Ghiculescu, L., Mechanical Properties Of Carbon-Based Nanocomposites For Sensors Used In Biomedical Applications, U.P.B. Sci. Bull., Series B, Vol. 83, Iss. 1, 2021 ISSN 1454-2331 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez5ae_106907.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez5ae_106907.pdf</a> WOS:000627764100004</p>	Ionescu Octavian Narcis
<p><b>35.</b> Maniadi, A., Vamvakaki, M., Suche, M., Tudose, I., Popescu, M., Romanitan, C., Pachi, C., Ionescu, O., Viskadourakis, Z., Kenanakis, G., Emmanouel, K., „Effect of graphene nanoplatelets on the structure, the morphology and the dielectric behavior of low density polyethylene nanocomposites” MATERIALS, ISSN 1996-1944 Volume: 13 Issue: 21, Article Number: 4776 DOI: 10.3390/ma13214776 Published: NOV 2020 PubMed ID: 33114722/ eISSN: 1996-1944, <a href="https://www.mdpi.com/1996-1944/13/21/4776">https://www.mdpi.com/1996-1944/13/21/4776</a> WOS:000589393500001 <b>Q1</b></p>	Ionescu Octavian Narcis
<p><b>36.</b> Blystad, L., Ohlckers, P., Marchetti, L., Franti, E., Dascalu, M., Ionescu, O., Dobrescu, D., Dobrescu, L., Niculae, C., Dragomir, D., Hønsvall, B., Opris, C., Imenes, K., Ion, A., Oproiu, M., Pascalau, A., Moldovan, C., Firtat, B., Ristoiu, V., Gheorghe, R., Barbilian, A., „ Bidirectional neuroprosthesis system integration” 2020/9/15 2020 IEEE 8th Electronics System-Integration Technology Conference (ESTC) Conferință, Pagini 1-7, DOI: 10.1109/ESTC48849.2020.9229697 <a href="https://ieeexplore.ieee.org/abstract/document/9229697">https://ieeexplore.ieee.org/abstract/document/9229697</a> WOS:000631824100027</p>	Ionescu Octavian Narcis
<p><b>37.</b> Petronela, P., Mihaela, H., Niculae, O., Anton, A., Ionescu, O., „New electrospun ZnO:MoO<sub>3</sub> nanostructures: Preparation, characterization and photocatalytic performance” July 2020, Nanomaterials ISSN 2079-4991 10(8), DOI: 10.3390/nano10081476, LicenseCC BY PubMed ID: 32731528/ eISSN: 2079-4991 <a href="https://www.mdpi.com/2079-4991/10/8/1476">https://www.mdpi.com/2079-4991/10/8/1476</a></p>	Ionescu Octavian Narcis

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<b>38.</b> Simionescu, O., Pachiu, C., Ionescu, O., Dumbravescu, N., Buiu, O., Popa, R., Avram, A., Dinescu, G., „Nanocrystalline graphite thin layers for low-strain, high-sensitivity piezoresistive sensing” Reviews On Advanced Materials Science, Volume: 59 Issue: 1 Pages: 306-313, DOI: 10.1515/rams-2020-0031, Published: JAN 2020 <a href="https://www.degruyter.com/document/doi/10.1515/rams-2020-0031/html">https://www.degruyter.com/document/doi/10.1515/rams-2020-0031/html</a> WOS:000557463800001	Ionescu Octavian Narcis
<b>39.</b> Cobianu, C, Dumbravescu, N; Serban, BC; Romanitan, C., Buiu, O., Comanescu, F, Danila, M.; Marinescu, R; Avramescu, V, Ionescu, O. „Sonochemically synthesized ZnO-Graphene nanohybrids and its characterization” REVIEWS ON ADVANCED MATERIALS SCIENCE, Volume: 59 Issue: 1 Pages: 176-187, DOI: 10.1515/rams-2020-0013 Published: JAN 2020, WOS:000543743300001 <a href="https://www.degruyter.com/document/doi/10.1515/rams-2020-0013/html?lang=de">https://www.degruyter.com/document/doi/10.1515/rams-2020-0013/html?lang=de</a>	Ionescu Octavian Narcis
<b>40.</b> Oprea M., A general framework and guidelines for benchmarking computational intelligence algorithms applied to forecasting problems derived from an application domain-oriented survey, Applied Soft Computing Journal, Vol. 89, 106103, April 2020, FI: 4.873., <a href="https://doi.org/10.1016/j.asoc.2020.106103">https://doi.org/10.1016/j.asoc.2020.106103</a> <b>Q1</b>	Oprea Mihaela
<b>41.</b> Roșca, C.-M., Rădulescu, G., Stancu, A. Artificial Intelligence of Things Infrastructure for Quality Control in Cast Manufacturing Environments Shedding Light on Industry Changes. Special Issue AI from Industry 4.0 to Industry 5.0: Engineering for Social Change, Appl. Sci. 2025, 15(4), 2068. <a href="https://doi.org/10.3390/app15042068">https://doi.org/10.3390/app15042068</a>	Radulescu Gabriel
<b>42.</b> Prelipceanu O.S., Prelipceanu M., Paraschiv N, Popa A, Geman O, Investigations of Novel High-Temperature Resistant Polymers for Electro-Optical Applications in Signal Processing Systems, Symmetry, vol. 11, no. 1, p. 60, Jan. 2019 IF: 1,256 – <b>Q2</b>	Paraschiv Nicolae

### Articole ISI Proceedings

1. Pascariu, P; Romanitan, C ; Brincoveanu, O; Pachiu, C ; Manica, D; Manica, M; Popescu, A; Sandu, T; Nedelcu, O; Ionescu, ON (; Suchea, MP; Koudoumas, E Growth of nanostructured Lanthanum doped ZnO by electrospinning calcination,. 2024 INTERNATIONAL SEMICONDUCTOR CONFERENCE, CAS 2024, Page61-64, DOI10.1109/CAS62834.2024.10736709 WOS:001361909500010 IF = 0.25	Ionescu Octavian Narcis
2. Manica, D; Pachiu, C; Romanitan, C; Ionescu, ON ; Nedelcu, OT Suchea, MP Carbon Nanotubes (CNTs)-Polypropylene Composites for Potential Electromagnetic Shielding Applications, 2024 INTERNATIONAL SEMICONDUCTOR CONFERENCE, CAS 2024 Page279-282 DOI10.1109/CAS62834.2024.10736740 WOS:001361909500059 IF = 0.25	Ionescu Octavian Narcis

<p>3. Pistritu, F; Pârvulescu, C; Gheorghe, M ; Dediu, V; Ionescu, ON ; Schiopu, P ; Suchea, M  Pressure mapping system at the level of the sole of the foot2024 INTERNATIONAL SEMICONDUCTOR CONFERENCE, CAS 2024Page313-316  DOI10.1109/CAS62834.2024.10736871  WOS:001361909500067 IF = 0.25</p>	<p>Ionescu Octavian Narcis</p>
<p>4. Ionescu, O; Cernica, IV; Manea, E; Purica, M; Corneliu, PC ; Paun, C; Alina, P  Microtextured photovoltaic cells system for UAVs autonomy extension, 2021 INTERNATIONAL SEMICONDUCTOR CONFERENCE (CAS) Page99-102  DOI10.1109/CAS52836.2021.9604168</p>	<p>Ionescu Octavian Narcis</p>
<p>5. Ionescu, O., Dumitru, V., Pricop, E., Besleaga, C., “UAV identification system based on memristor physical unclonable functions”12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI) Year 2020, Conference Paper, Publisher IEEE, <a href="https://ieeexplore.ieee.org/document/9223154">https://ieeexplore.ieee.org/document/9223154</a> WOS:000627393500034</p>	<p>Ionescu Octavian Narcis</p>
<p>6. Pascu, R., Kusko, M., Ionescu,O., Pristavu, G., Brezeanu, G., Electrical defects in grown oxide on SiC and from the oxide/SiC interface, International Semiconductor Conference, Book SeriesInternational Semiconductor Conference, Page37-40, Published2020, Indexed2021-05-15DOI: 10.1109/CAS50358.2020.9268016 WOS:000637264600008 <a href="https://ieeexplore.ieee.org/abstract/document/9268016">https://ieeexplore.ieee.org/abstract/document/9268016</a></p>	<p>Ionescu Octavian Narcis</p>
<p>7. Paun, C., Tomescu, R., Cristea, D., Ionescu,O.,Parvulescu, C., „Design, fabrication and characterization of a micro-heater for metasurface-based gas sensors”, International Semiconductor Conference (CAS), 2020 Pagini 31-34 DOI: 10.1109/CAS50358.2020.9267975 WOS:000637264600007 <a href="https://ieeexplore.ieee.org/abstract/document/9267975">https://ieeexplore.ieee.org/abstract/document/9267975</a></p>	<p>Ionescu Octavian Narcis</p>
<p>8. Petrescu D., Enache D. Duta L. (2022), Collaborative Decision Making in Online Education, The 8th International Conference on Information Technology and Quantitative Management, SPRINGER Procedia Computer Science vol 199 pag 1090-1094, WOS:000765802100141 ISSN 1877-0509</p>	<p>Luminita Duta</p>
<p>9. Marica E., Oprea M., An Arduino-Based Intelligent System for Drinking Water Quality Analysis, Journal of Electrical Engineering, Electronics, Control and Computer Science – JEECCS, Volume 11, 2025.</p>	<p>Oprea Mihaela</p>
<p>10. Oprea M., Knowledge Modelling for Teaching and Learning Artificial Intelligence by Using Educational Robots, Proceedings of ICVL 2024, 397-406. <a href="https://doi.org/10.58503/icvlv19y202433">https://doi.org/10.58503/icvlv19y202433</a></p>	<p>Oprea Mihaela</p>
<p>11. Stan C, Oprea M., On the development of educational resources for smart industrial manufacturing teaching and learning, Proceedings of ICVL 2023, Bucharest, October 2023, pag. 57-66. <a href="https://doi.org/10.58503/icvlv18y202304">https://doi.org/10.58503/icvlv18y202304</a>.</p>	<p>Oprea Mihaela</p>
<p>12. Stan C., Oprea M., Stan A.C., Case Study Of Predictive Maintenance Using Data Analysis For A Flexible Manufacturing Line, Journal of Electrical Engineering, Electronics, Control and Computer Science – JEECCS, Volume 9, Issue 31, pages 43-48, 2023.</p>	<p>Oprea Mihaela</p>

13. Nica (Stan) C., Oprea M., Stan A. C., PREDICTIVE MAINTENANCE OF A FLEXIBLE PRODUCTION LINE IMPLEMENTED IN MATLAB, Romanian Journal of Petroleum & Gas Technology, VOL. IV (LXXV) • No. 2/2023. DOI: 10.51865/JPGT.2023.xy.xy DOI: 10.51865/JPGT.2023.02.24.	Oprea Mihaela
14. Nica C., Oprea M., Stan A.C., On the Development of a Mobile TurtleBot3 Burger Multi-robot System for Manufacturing Environment Monitorization, PROCEEDINGS OF EMERGING TRENDS AND TECHNOLOGIES ON INTELLIGENT SYSTEMS (ETTIS 2021), 2022, Volume 1371, Page 323-337, DOI 10.1007/978-981-16-3097-2 27	Oprea Mihaela
15. Stan C., Oprea M., Virtual learning simulator of a flexible manufacturing line using Petri NET toolbox, Proc. of ICVL 2022, vol. 17, pp. 101 – 108, 2022. <a href="https://doi.org/10.58503/icvlv17y202208">https://doi.org/10.58503/icvlv17y202208</a>	Oprea Mihaela
16. Stan A., Oprea M., Applied learning of artificial intelligence techniques by using the Gazebo simulator and Turtlebot3 multi-robot system, Proc. of ICVL 2022, vol. 17, pp. 117-126, 2022. <a href="https://doi.org/10.58503/icvl-v17y202210">https://doi.org/10.58503/icvl-v17y202210</a>	Oprea Mihaela
17. Oprea M., Artificial intelligence based approaches for higher education applications, Proc. of ICVL 2021, p. 15-22.	Oprea Mihaela
18. Oprea M., Burlan B., Dinu I. G., Case studies of some educational applications in Computer Science Domain, Proc. of ICVL 2021, p. 177-184.	Oprea Mihaela
19. A. C. Stan, M. Oprea, A. Moise, C. Popescu, Environmental scada system using mobile robots, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2020, 2020-August (4.1), pp. 407–414.	Oprea Mihaela
20. Oprea M., An Educational Ontology for Formal Languages and Compilers, The 15th International Conference on Virtual Learning ICVL 2020, pag. 54-60, ISSN 1844 – 8933	Oprea Mihaela

### Articole în Reviste și Conferințe BDI

1. Suchea, M., Ionescu, O., Tudose, I., Mouratis, K., Romanitan, C., Pachi, „ <i>SnO<sub>2</sub> and Ni doped SnO<sub>2</sub> /polithiophene nanocomposites for gas sensing applications</i> ” <u>Solid State Electronics Letters</u> , Volume 2, December 2020, Pages 85-91, <a href="https://doi.org/10.1016/j.ssel.2020.11.003">https://doi.org/10.1016/j.ssel.2020.11.003</a> , <a href="https://www.elsevier.com/search-results?query=SnO2%20and%20Ni%20doped%20SnO2%20%2Fpolithiophene%20nanocomposites%20for%20gas%20sensing%20applications%20Solid%20State%20Electronics%20Letters&amp;scles">https://www.elsevier.com/search-results?query=SnO2%20and%20Ni%20doped%20SnO2%20%2Fpolithiophene%20nanocomposites%20for%20gas%20sensing%20applications%20Solid%20State%20Electronics%20Letters&amp;scles</a>	Ionescu Octavian Narcis
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<p>2. E. Koudoumas; O. N. Ionescu; V. Z. Barsukov; M. P. Suchea Innovative composite materials for electromagnetic shielding, <i>International Semiconductor Conference (CAS)</i>, Date of Conference: 12-14 October 2022 Date Added to IEEE Xplore: 09 November 2022 INSPEC Accession Number: 22239606 DOI: 10.1109/CAS56377.2022.9934416 <a href="https://25106bsj2-y-https-ieeeexplore-ieee-org.z.e-nformation.ro/document/9934416">https://25106bsj2-y-https-ieeeexplore-ieee-org.z.e-nformation.ro/document/9934416</a></p>	Ionescu Octavian Narcis
<p>3. Iulian Florin Stefan, Luminita Duta, Cybersecurity in Industrial Applications, The 23rd Conference on Informatics in Economy (IE 2024), Timisoara Romania, 2024 <a href="https://www.conferenceie.ase.ro/index.php/conference-program/">https://www.conferenceie.ase.ro/index.php/conference-program/</a></p>	Luminita Duta
<p>4. Marcu C., Duta L., Manea M., (2022) Analyzing business performances with a multicriteria decision method, The 20th International Conference on Informatics in Economy, Volume Education, Research &amp; Business Technologies, IE2021, SPRINGER NATURE, ISBN 9811688664, 2021, Vol 276, Chapitre 34, pag 411-419, 2022 <a href="https://www.conferenceie.ase.ro/index.php/ie-2021-conference-papers/">https://www.conferenceie.ase.ro/index.php/ie-2021-conference-papers/</a></p>	Luminita Duta

#### E. Brevete obținute în ultimii 5 ani -

Intenationale	
<p>1. Ionescu, O., Constantinescu, Z., Serban, B., Buiu, O., Buiu, A., USPTO ( United States Patent Office) „Cyber security system for internet of things connected devices”.U.S. patent number 10,972,486, Application Number 16/176,638 granted by the patent office on 2021-04-06. <a href="https://uspto.report/patent/grant/10,972,486">https://uspto.report/patent/grant/10,972,486</a></p>	Ionescu Octavian Narcis
<p>2. Dumitru, V; Pircalabu, S; Ionescu, O, Marica, C; Marica, V; Luca, M, USPTO ( United States Patent Office) „Secure communication system and method” US patent numberUS11356422(B1) granted by the patent office on 2022-06-07. <a href="https://patents.google.com/patent/US20210136044A1/en?q=(Secure+communication+system+and+method)&amp;inventor=Octavian+Narcis+Ionescu">https://patents.google.com/patent/US20210136044A1/en?q=(Secure+communication+system+and+method)&amp;inventor=Octavian+Narcis+Ionescu</a></p>	Ionescu Octavian Narcis
<p>3. Ionescu, O., Buiu O., Georgescu, I., Dumitru, V., Serban, B., Brezeanu, M., Serbanescu, M., USPTO ( United States Patent Office) „Adaptive balancing for battery management”, U.S. patent numberUS11034259B2· granted by the patent service on 2021-06-15 <a href="https://patents.google.com/patent/US20210221251A1/en?q=(Adaptive+balancing+battery+management)&amp;inventor=Octavian+Ionescu">https://patents.google.com/patent/US20210221251A1/en?q=(Adaptive+balancing+battery+management)&amp;inventor=Octavian+Ionescu</a></p>	Ionescu Octavian Narcis
Nationale	
<p>1. Constantinescu Z, Ionescu O, Ionescu C, Vladoiu M, Brevet de inventie nr RO 133285, Sistem de senzori de presiune inclus in structura ajutorajului motoarelor racheta, Acordat de către Oficiul de Stat pentru Invenții și Mărci – OSIM România <a href="https://www.osim.ro/images/Publicatii/Inventii/2024/bopi_inv_08_2024.pdf">https://www.osim.ro/images/Publicatii/Inventii/2024/bopi_inv_08_2024.pdf</a></p>	Ionescu Octavian Narcis
<p>2. Cobianu C, Serban B, Buiu O, Dumbravescu N, Marinescu R, Ionescu O, Avramescu V, Brevet de inventie nr RO 134143 Senzor chemorezistiv de etanol pe baza de Nanocompozite de grafena si oxid metalic si un procedeu de obtinere a acestuia. Acordat de către Oficiul de Stat pentru Invenții și Mărci – OSIM România <a href="https://osim.ro/images/Publicatii/Inventii/2025/bopi_inv_01_2025.pdf">https://osim.ro/images/Publicatii/Inventii/2025/bopi_inv_01_2025.pdf</a></p>	Ionescu Octavian Narcis
<p>3. Mirela Suchea, Ionescu Octavian, Tudose Valentin, Pacuraru Luminita, Sistem inivativ pentru utilizarea reclamelor luminoase tridimensionale de interior si in scopul purificarii aerului A2018 00981</p>	Ionescu Octavian Narcis

<a href="https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2019/bopi_inv_05_2019.pdf">https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2019/bopi_inv_05_2019.pdf</a>	
4. Ionescu Octavian, Zoran Constantinescu, Ionescu Gabriela, Vladoiu Monica, Brevet de inventie nr 133286 Sistem si metoda de masurare a ratei de regresie pentru combustibili solizi realizati prin tehnologie printare 3D	Ionescu Octavian Narcis

## F. Contracte de cercetare

### Director granturi/proiecte internationale

### Director granturi/proiecte naționale

<ul style="list-style-type: none"> <li>„Sistem de celule fotovoltaice microtexturate de eficienta sporita integrat in aripa unui avion fara pilot (UAV) cu aplicatii in securitatea societala”, pentru activități în categoria D - Activități de cercetare industrială și/sau dezvoltare experimentală (CD) realizate de organizația de cercetare în colaborare efectivă cu întreprinderea C77.D. Valoare incasata <b>450000 Lei</b> Proiectul a tratat atat dezvoltarea sistemului de celule fotovoltaice texturata cat si integrarea sursei de energie regenerabila ( celulele fotovoltaice) cu sistemul de alimentare al UAV ului.</li> </ul>	Ionescu Octavian Narcis
<ul style="list-style-type: none"> <li>„Anduranță la acțiunea vibrațiilor aleatoare și mecanice, Stabilitate la temperatură și umiditate, Stabilitatea la acțiunea radiației solare-Testare sisteme optice SIOBLIN” proiect Nr.C77.2B/ 08.07.2020 In cadrul acestui proiect au fost realizate cercetari si studii referitoare la fiabilitatea si stabilitatea in functionare a unor sisteme complexe de monitorizare optica automata, a frontierelor de stat, determinare si identificare a subiectilor ce au tentative de trecere frauduloasa a acestora.</li> </ul>	Ionescu Octavian Narcis
<ul style="list-style-type: none"> <li>„Panouri de Protecție Balistică pentru Limitarea Exploziilor în Aeroporturi” – PLEXO Cod: ROFSIP2016OS6A12P0, Contract nr. 221993/18.09.2020: Servicii de cercetare – dezvoltare a unor panouri de protecție balistică de dimensiuni reduse In cadrul acestui proiect in afara protectiei balistice a fost studiata si implementata o solutie inovativa de ecranare electromagnetica a incarcaturilor explozive artizanale si intrerupere a sistemului de radiocomunicatii intre atacatori si dispozitivele de comanda a detonarii. Cercetarile efectuate asupra sistemelor ce pot fi folosite respectiv domeniilor de frecventa au condus la definirea parametrilor si elaborarea materialelor radioabsorbante ( atat vopseluri cat si materiale plastice) dezvoltate pentru astfel de aplicatii. Cercetarile, determinarile si masuratorile efectuate au demonstrat obtinerea unor atenuari ale semnalului de 30 dB-40dB si sunt prezentate si intr-unul dintre articolele pe care le-am considerat reprezentative. Faptul ca nu s-a facut o specificare directa la scopul lor a fost generat de cerinta expresa a beneficiarului care a considerat ca odata cunoscuta aceasta proprietate a panourilor persoanele cu intentii malitioase vor cauta cai alternative pentru a detona incarcaturile explozive. Proiect obtinut prin competitie pe SEAP ( au participat ofertanti precum ISS, ACTTM etc)</li> </ul>	Ionescu Octavian Narcis
<ul style="list-style-type: none"> <li>GEREMP. „Muniție cu impuls electromagnetic” Contract 01 PSCD 2024 Proiect obtinut prin concurs pe axa Soluții pentru Ministerul Aparării Naționale</li> </ul>	Ionescu Octavian Narcis

### Membru in colective de granturi/proiecte internaționale

1. <i>PROBA-3 ASPIICS OPSE HARWARE – Contract No. 4000111522 / 14 / NL / GLCESA OPSE, ANEXA 2 Contract cu valoare incasata 450000 Euro ( 2016-2023)</i> <a href="https://www.eoportalsatellite-missions/proba-3">https://www.eoportalsatellite-missions/proba-3</a>	Ionescu Octavian Narcis
2. „ <i>Arm neuroprosthesis equipped with artificial skin and sensorial feedback</i> ”, EEA-RO-NO-2018-0390 Call name: EEA Grants - Proiecte Colaborative de Cercetare EEA-RO-NO-2018-0390 2019 – 2023 <a href="https://www.armin-see.eu">https://www.armin-see.eu</a>	Ionescu Octavian Narcis
3. „ <i>Accelerating Innovation in Microfabricated devices</i> ”-Moore4Medical CodSMIS2014+:137529 Contract 15/1.1.3H/390018/19.03.2021	Ionescu Octavian Narcis
4. „ <i>Power Grid Modernization towards a More Stable Future-SuPriM</i> ”, case 2021/332778- IMT Bucharest and 2021/336905 -Universitetet I Sørøst-Norge	Ionescu Octavian Narcis i
5. <i>Supercapacitors for Power Grid Modernization towards a More Stable Future-SuPriM, EEA and Norwegian Financial Mechanisms - Energy Programme in Romania/ Renewable energy, energy efficiency and energy security. Contract EEA 332778</i>	Ionescu Octavian Narcis
6. <i>NerveRepack. Intelligent neural system for bidirectional connection with exoprostheses and exoskeletons</i> <a href="https://www.nerverepack.eu/about-the-project">https://www.nerverepack.eu/about-the-project</a>	Ionescu Octavian Narcis

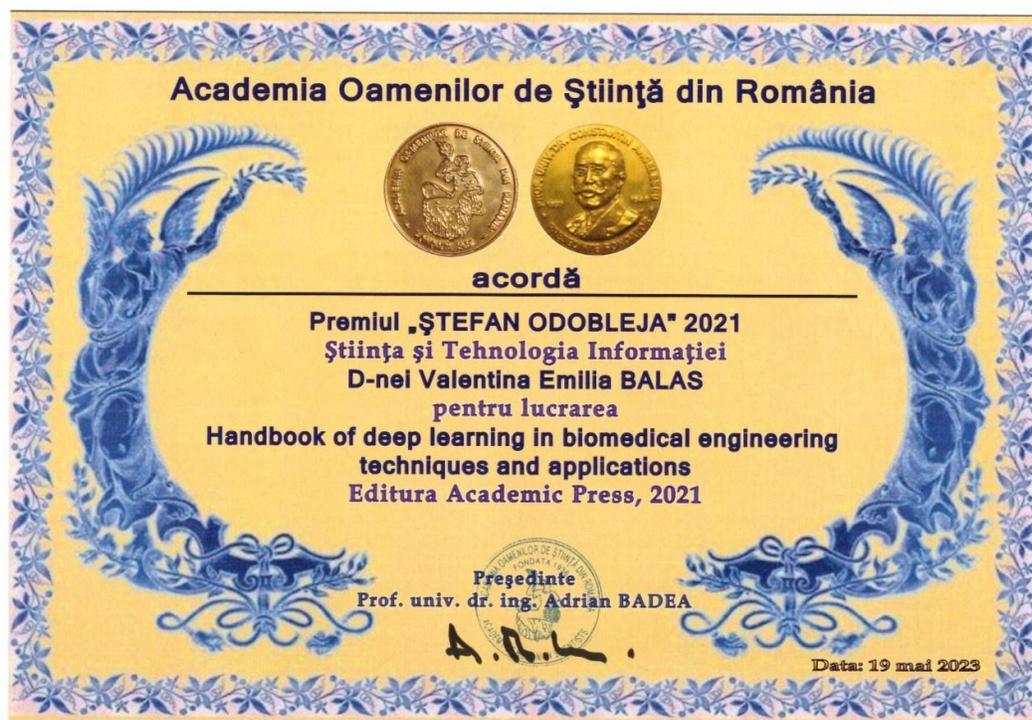
### Membru in colective de granturi/proiecte naționale

1. „ <i>Metoda si dispozitiv de testare la domiciliu pentru detectarea precoce a virusului SARS-CoV-2</i> ”.Proiect finantat in cadrul PNIII, Programul 2- Creșterea competitivității economiei românești prin cercetare-dezvoltare și inovare, domeniul de prioritate publică “Sănătate”, Competiția SOLUȚII -2020 -1.Contract Nr. 13Sol/15.06.2020	Ionescu Octavian Narcis
2. „ <i>Developing quantum information and quantum technologies in Romania</i> Call name: <i>P 1 - SP 1.2</i> ”- Proiecte complexe realizate in consorții CDI PN-III-P1-1.2-PCCDI-2017-0338 2018 – 2021 <a href="https://roqnet.ro/qutech-ro/">https://roqnet.ro/qutech-ro/</a>	Ionescu Octavian Narcis
3. „ <i>Sistem mobil adaptiv de mixare si dispersare a unor solutii coloidale inovative cu nanoparticule pentru neutralizarea toxicitatii agentilor chimici, biologici si radiologici</i> ” PN-III-P2-2.1-PED-2019-4222	Ionescu Octavian Narcis
4. „ <i>Nanostructured carbon based materials for advanced industrial applications</i> Call name: <i>P 1 - SP 1.2</i> ” - Proiectecomplexerealizate in consorții CDIPN-III-P1-1.2-PCCDI-2017-0619 <a href="http://www.imt.ro/nanocarbon+/">http://www.imt.ro/nanocarbon+/</a>	Ionescu Octavian Narcis
5. „ <i>Servicii de elaborare a unui studiu privind eficientizarea masurilor de integrare a producatorilor de energie electrica utilizand surse regenerabile in retelele electrice de distributie din zona S.C. F.D.E.E. Electrica Distributie Muntenia Nord S.A.</i> ”, nr. Contract 23/2011, 5 persoane, Beneficiar S.C. Electrica Muntenia Nord S.A., val. (cu TVA) 44400 lei.	Ionescu Octavian Narcis
6. „ <i>Dispozitiv electrochimic modular pentru stocarea de sarcina Multi-celled electrochemical STorage Devices</i> Call name: <i>P 2 - SP 2.1</i> ” - Proiect experimental –	Ionescu Octavian

demonstrativPN-III-P2-2.1-PED-2019-4146 2019 - 2021	Narcis
7. „Range Of Image Optical Systems With Zoom For Mwir Spectral Field With Security Applications Call name: P 2 - SP 2.1” - Proiect de transfer la operatorul economicPN-III-P2-2.1-PTE-2019-0465 2020 - 2022	Ionescu Octavian Narcis

## PREMII

- 1) Academia Oamenilor de Știință din România - Bucuresti - Gala premiilor pentru anul 2021 - **Premiul "ȘTEFAN ODOBLEJA"** și afilierea ca MEMBRU ASOCIAT AOSR, Secția XII -Știința și Tehnologia Informației, în mai 2023



Premiul AGIR 2023 pentru anul 2022



2022 – Premiul “Stefan Odobleja” al Academiei Oamenilor de Stiinta din Romania



In perioada 2020-2026 colectivul profesorilor conducatori de doctorat in specialitatea Ingineria Sistemelor au realizat:

Publicarea a 4 carti/capitole in Edituri Intenationale

Publicarea a 14 carti in Edituri Nationale

Publicarea a 42 articole in reviste indexate WoS dintre care 28 in zonele Galben si Rosu

Publicarea in Proceedinguri la conferinte indexate ISI a 20 articole

Acordarea a 3 brevete internationale ( USPTO)

Acordarea a 4 brevete nationale OSIM

Obtinerea a 3 premii de recunoastere a activitatii acordate de AOSR si AGIR