

A N E X A 4 . 1

Nume Prenume: Alexandrescu Adrian

Gradul didactic: Șef de lucrări

Instituția unde este titular: Universitatea Tehnică "Gheorghe Asachi" din Iași

Facultatea: Automatică și Calculatoare

Departamentul: Calculatoare

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

1. Teza de doctorat

1. Applications of Artificial Intelligence in Heterogeneous Computing Systems (Aplicații ale Inteligenței Artificiale în Sistemele Distribuie Heterogene), Universitatea Tehnică Gheorghe Asachi din Iași, 2012, coordonator prof.dr.inf. Mitică Craus.

2. Cărți și capitole în cărți publicate în ultimii 10 ani

1. A. Alexandrescu, "Concepte de programare și securitate WEB." ISBN 978-630-328-100-1. "Vol. 1 : Bazele dezvoltării și securizării aplicațiilor WEB folosind HTML, CSS, JAVASCRIPT și HTTP" ISBN 978-630-328-101-8. Ed. Performantica, 2024.
2. A Alexandrescu, „Construirea incrementală a aplicațiilor web: Ghid practic pentru începători”, ISBN 978-973-621-567-4. Editura Universității Tehnice "Gheorghe Asachi" din Iași, 130 pagini, 2025.

3. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. V.-G. Puiu and A. Alexandrescu, "An event-driven service-oriented architecture for performing actions on business organization items," in International Conference on Exploring Services Science. Springer, Cham, 2016, pp. 432–443.
2. A. Alexandrescu, C. N. Buțincu, and M. Craus, "Improving after-sales services using mobile agents in a service-oriented architecture," in International Conference on Exploring Services Science. Springer, Cham, 2016, pp. 444–456.
3. A. Alexandrescu, A. Stan, N. Botezatu, and S. Caraiman, "Real-time inter-process communication in heterogeneous programming environments," in System Theory, Control and Computing (ICSTCC), 2016 20th International Conference. IEEE, 2016, pp. 283–288.
4. C. N. Buțincu, A. Alexandrescu, and M. Craus, "A challenge driven platform for development of new business models in the context of self-organizing product-service systems," in 2016 15th RoEduNet Conference: Networking in Education and Research. IEEE, 2016, pp. 1–6.
5. A. Alexandrescu, C. N. Butincu, and M. Craus, "Recommending products and services belonging to online businesses using intelligent agents," Service Science, vol. 9, no. 4, pp. 338–348, 2017.

6. A. Alexandrescu, “A distributed framework for information retrieval, processing and presentation of data,” in 2018 22nd International Conference on System Theory, Control and Computing (ICSTCC). IEEE, 2018, pp. 267–272.
7. A. Alexandrescu, “An evaluation system for contests and classrooms,” BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI, Section of Electrical Engineering, Power Engineering, Electronics, vol. 64, no. 1, pp. 67–78, 2018.
8. A. Alexandrescu, “Optimization and security in information retrieval, extraction, processing, and presentation on a cloud platform,” Information, vol. 10, no. 6, p. 200, 2019.
9. A. Alexandrescu and G. Butnaru, “An architecture of identity management and thirdparty integration for online teaching in a university,” in 2020 24th International Conference on System Theory, Control and Computing (ICSTCC). IEEE, 2020, pp. 850– 855.
10. S. D. Achirei, O. Zvoristeanu, A. Alexandrescu, N. A. Botezatu, A. Stan, C. Rotariu, R. G. Lupu, and S. Caraiman, “Smartcare: On the design of an iot based solution for assisted living,” in 2020 International Conference on e-Health and Bioengineering (EHB). IEEE, 2020, pp. 1–4.
11. S. D. Achirei, O. Zvoristeanu, A. Alexandrescu, N. A. Botezatu, A. Stan, C. Rotariu, R. G. Lupu, and S. Caraiman, “Remote monitoring of physiological parameters used in ambient assistive technologies,” in 2020 International Conference on e-Health and Bioengineering (EHB). IEEE, 2020, pp. 1–4.
12. C.N. Buțincu, A. Alexandrescu, “Blockchain-Based Platform to Fight Disinformation Using Crowd Wisdom and Artificial Intelligence”, Applied Sciences, Volume 13, Issue 10, ISSN: 2076-3417, 2023 (<https://doi.org/10.3390/app13106088>) (Impact Factor 2022: 2.7 - Q2)
13. A. Alexandrescu, C.N. Buțincu, “Decentralized News-Retrieval Architecture Using Blockchain Technology”, Mathematics, Special Issue: Application of Cloud Computing and Distributed Systems, Volume 11, Issue 21, ISSN: 2227-7390, 2023 (<https://doi.org/10.3390/math11214542>) (Impact Factor 2022: 2.4 - Q1)
14. A. Alexandrescu, N. Botezatu, R. Lupu. "Monitoring and processing of physiological and domotics parameters in an Internet of Things (IoT) assistive living environment." In 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), pp. 362-367. IEEE, 2022.
15. A. Alexandrescu, “Parallel Processing of Sensor Data in a Distributed Rules Engine Environment through Clustering and Data Flow Reconfiguration”, SENSORS, Volume 23, Issue 3, ISSN 1424-8220, 2023 (<https://doi.org/10.3390/s23031543c>) (Impact Factor 2023: 3.4 - Q2)
16. N. Botezatu, A. Alexandrescu, “Cloud-based architecture for deploying a distributed ambient assisted living environment”. In 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), pages 339–344, Oct 2023
17. A. Alexandrescu, C. Mironeanu. “A framework for anything-as-a-service on a cloud platform”. In 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), pages 333–338, Oct 2023.
18. M-I. Pavăl, A. Alexandrescu, A. Archip. “An openstack cloud solution for a community database with handwritten characters used in developing ocr algorithms”. In 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), pages 327–332, Oct 2023.

19. G. Vodă and A. Alexandrescu. "A plagiarism detection architecture based on openstack services". In 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), pages 315–320, Oct 2023.
20. D-E. Bărbuță, A. Alexandrescu. "A decentralized paper dissemination system employing blockchain technology, peer review and expert badges". In 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), pages 321–326, Oct 2023.
21. A. Alexandrescu, and Cristian Nicolae Butincu. "DARS: Decentralized Article Retrieval System." *SoftwareX* 25 (2024): 101624.
22. C.N. Butincu, A. Alexandrescu. "Design Aspects of Decentralized Identifiers and Self-Sovereign Identity Systems." *IEEE Access* (2024).
23. N.G. Barcan, A. Alexandrescu, T. Turcanu. "Gamification of the Learning Process for Acquiring Logical Thinking in Programming." 2024 23rd RoEduNet Conference: Networking in Education and Research (RoEduNet). IEEE, 2024.
24. O. Agapie, A. Alexandrescu, D. Turcanu. "Cloud-Based Distributed Solution for Optimizing the Search for Tourist Destinations." 2024 23rd RoEduNet Conference: Networking in Education and Research (RoEduNet). IEEE, 2024.
25. D-E. Bărbuță, A. Alexandrescu, D. Tărniceriu, M. Gavrilă. "Leveraging Blockchain to Enhance the Efficiency and Data Integrity of Systems Monitoring Drivers' Sobriety." 2024 23rd RoEduNet Conference: Networking in Education and Research (RoEduNet). IEEE, 2024.
26. I-E. Rusu, A. Alexandrescu. "Travel Planning Optimization System Employing Genetic Algorithms with Multiple Parameters." 2024 28th International Conference on System Theory, Control and Computing (ICSTCC). IEEE, 2024.
27. D-E. Bărbuță, A. Alexandrescu. "A Secure Real Estate Transaction Framework Based on Blockchain Technology and Dynamic Non-Fungible Tokens." 2024 28th International Conference on System Theory, Control and Computing (ICSTCC). IEEE, 2024.
28. Adrian Alexandrescu, Delia-Elena Bărbuță, Cristian-Nicolae Buțincu, Gabriel-Alexandru Scînteie, Silviu-Dumitru Pavăl, Alexandru Archip, Cătălin Mironeanu, Mircea Tăune, Cristian Grăunte, Gheorghită Butnaru, Simona Caraiman. SPARK-IT: A Decentralized Blockchain and AI-Driven Ecosystem for Trusted and Transparent Innovation Collaboration. 2025 29th International Conference on System Theory, Control and Computing (ICSTCC). 2025, pp. 227–232. doi: 10.1109/ICSTCC66753.2025.11240491.5 (IEEE Xplore)
29. Alexia Marcu, Flavia Antăluțe, Adrian Alexandrescu. Decentralized Educational Certification Platform using Blockchain, Dynamic NFTs, and AI-Based Assessment. 2025 29th International Conference on System Theory, Control and Computing (ICSTCC). 2025, pp. 221–226. doi: 10.1109/ICSTCC66753.2025.11240552. (IEEE Xplore)
30. Flavia Antăluțe, Alexia Marcu, Adrian Alexandrescu. EduPlay: Interactive Learning Platform for Middle School Students Integrated with Gamification and Blockchain. 2025 29th International Conference on System Theory, Control and Computing (ICSTCC). 2025, pp. 215–220. doi: 10.1109/ICSTCC66753.2025.11240542.4 (IEEE Xplore)
31. Cristian Nicolae Buțincu, Adrian Alexandrescu, Delia-Elena Bărbuță. Decentralized Identifiers Access Control Security Policy for Blockchain DApps and On-Chain Validation. 2025 7th

International Conference on Blockchain Computing and Applications (BCCA). 2025, pp. 473–480. doi:10.1109/BCCA66705.2025.11227182. (IEEE Xplore)

32. Delia-Elena Bărbuță, Cristian Nicolae Butincu, Adrian Alexandrescu. SPARK-IT Green: A Decentralized Blockchain-Based Platform for Sustainable Innovation, Mentorship and DAO Governance. 2025 7th International Conference on Blockchain Computing and Applications (BCCA). 2025, pp. 451–458. doi: 10.1109/BCCA66705.2025.11229714. (IEEE Xplore)
33. Adrian Alexandrescu, Delia-Elena Bărbuță, Cristian Nicolae Buțincu. Secure and Decentralized Data Sharing Using Blockchain and Cryptographic Access Control. 2025 7th International Conference on Blockchain Computing and Applications (BCCA). 2025, pp. 437–444. doi: 10.1109/BCCA66705.2025.11229511. (IEEE Xplore)
34. Delia-Elena Bărbuță, Gabriel-Alexandru Scînteie, Adrian Alexandrescu. Modular AI-Enhanced System for Predictive and Real-Time Clinical Decision Support. 2025 24th RoEduNet Conference: Networking in Education and Research (RoEduNet), ISBN: 979-8-3315-5713-3, ISSN: 2247-5443, 2025. (IEEE Xplore, SCOPUS)

4. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

Data:

23.02.2026