

Lista lucrărilor publicate

Lector univ. dr. Gabriel Iuhasz

i) Titlul tezei de doctorat:

“Machine Learning in Games based on a Multi-Agent Architecture”

Coordonator științific: Prof.univ.dr. Viorel Negru

ii) Lista articolelor publicate în reviste din fluxul științific internațional principal:

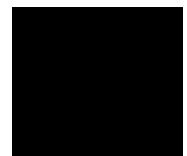
1. Gabriel Iuhasz, Viorel Negru, Daniela Zaharie; “Neuroevolution Based Multi-Agent System with Ontology Based Template Creation for Micromanagement in Real-Time Strategy Games”, *Journal Information technology and Control*, Volume 43, Issue 1, pages 98-109, 2024, <https://doi.org/10.5755/j01.itc.43.1.4600>
2. Gabriel Iuhasz, Daniel Pop, Ioan Dragan; “Architecture of a Scalable Platform for Monitoring Multiple Big Data Frameworks”, *Scalable Computing: Practice and Experience*, Volume 17, pages 313-321
3. Iuhasz, G., Drăgan, I., & Petcu, D. (2019). A Scalable Platform for Monitoring Data Intensive Applications. *Journal of Grid Computing*, 17, 503 - 528.
4. Kimovski D, Mathá R, Iuhasz G, Marozzo F, Petcu D, Prodan R. Autotuning of Exascale Applications With Anomalies Detection. *Front Big Data*. 2021 Nov 26;4:657218. doi: 10.3389/fdata.2021.657218. PMID: 34901840; PMCID: PMC8661695.
5. Llorenç Cerdà-Alabern, Gabriel Iuhasz, Gabriele Gemmi, Anomaly detection for fault detection in wireless community networks using machine learning, *Computer Communications*, Volume 202, 2023, Pages 191-203, ISSN 0140-3664, <https://doi.org/10.1016/j.comcom.2023.02.019>.
6. Llorenç Cerdà-Alabern, Gabriel Iuhasz, Dataset for anomaly detection in a production wireless mesh community network, *Data in Brief*, Volume 49, 2023, 109342, ISSN 2352-3409, <https://doi.org/10.1016/j.dib.2023.109342>.

iii) Lista publicațiilor in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate:

1. Iuhasz, G., Panica, S., Fortis, F., Duma, A. (2024). A Distributed Platform for Cycle Detection and Analysis in Cyber-Physical Systems. In: Barolli, L. (eds) *Advanced Information Networking and Applications. AINA 2024. Lecture Notes on Data Engineering and Communications Technologies*, vol 200. Springer, Cham. https://doi.org/10.1007/978-3-031-57853-3_37
2. Gabriel Iuhasz, Silviu Panica, Alecsandru Dumitru - Cycle Detection and Clustering for Cyber Physical Systems, *The 37th International Conference on Advanced Information Networking and Applications, 2023*
3. G. Iuhasz, "Performance and Compliance Anomaly Detection," 2023 25th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Nancy, France, 2023, pp. 20-25, doi: 10.1109/SYNASC61333.2023.00059.



4. Adrian Spătaru, Gabriel Iuhasz, Silviu Panica - TUFA: A TOSCA extension for the specification of accelerator-aware applications in the Cloud Continuum, *IEEE 46th Annual Computers, Software, and Applications Conference, 2022*
5. A. Kretsis et al., "SERRANO: Transparent Application Deployment in a Secure, Accelerated and Cognitive Cloud Continuum," 2021 IEEE International Mediterranean Conference on Communications and Networking (MeditCom), Athens, Greece, 2021, pp. 55-60, doi: 10.1109/MeditCom49071.2021.9647689.
6. C. -G. Barburescu and G. Iuhasz, "Optimizing Deep Learning Models for Object Detection," 2020 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2020, pp. 270-277, doi: 10.1109/SYNASC51798.2020.00051.
7. V. Kashansky et al., "M3AT: Monitoring Agents Assignment Model for Data-Intensive Applications," 2020 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP), Västerås, Sweden, 2020, pp. 72-79, doi: 10.1109/PDP50117.2020.00018.
8. M. Erascu, G. Iuhasz and F. Micota, "An Architecture for a Management Agency for Cloud Resources," 2018 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2018, pp. 288-295, doi: 10.1109/SYNASC.2018.00052.
9. D. N. Doan and G. Iuhasz, "Tuning Logstash Garbage Collection for High Throughput in a Monitoring Platform," 2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2016, pp. 359-365, doi: 10.1109/SYNASC.2016.063.
10. Casale, G., Ardagna, D., Artac, M., Barbier, F., Nitto, E. D., Henry, A., Iuhasz, G., Joubert, C., Merseguer, J., Munteanu, V. I. and others *DICE: quality-driven development of data-intensive cloud applications* Proceedings of the Seventh International Workshop on Modeling in Software Engineering **2015**, pp. 78-83
11. Iuhasz, G. and Dragan, I. *An Overview of Monitoring Tools for Big Data and Cloud Applications* 2015 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), **2015**, pp. 363-366
12. Iuhasz, G., Jamshidi, P., Wang, W. and Casale, G. *Load Balancing for Multi-cloud* Model-Driven Development and Operation of Multi-Cloud Applications, Springer International Publishing, **2017**, pp. 53-58
13. Iuhasz, G., Munteanu, V. I. and Negru, V. *A Survey of Adaptive Game AI: Considerations for Cloud Deployment* Intelligent Distributed Computing VII Springer International Publishing, **2014**, pp. 309-315
14. Iuhasz, G., Munteanu, V. I. and Negru, V. *Framework for Enabling Scalable Learning Game AI*. ENASE, **2013**, pp. 189-196
15. G. Iuhasz, V. I. Munteanu and V. Negru, "Data mining considerations for knowledge acquisition in real time strategy games," 2013 IEEE 11th International Symposium on Intelligent Systems and Informatics (SISY), Subotica, Serbia, 2013, pp. 331-336, doi: 10.1109/SISY.2013.6662596.
16. G. Iuhasz, V. I. Munteanu and V. Negru, "Evolutionary Approach to Negotiation in Game AI," 2013 15th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, 2013, pp. 296-302, doi: 10.1109/SYNASC.2013.46.



17. Pop, D., Iuhasz, G., Craciun, C. and Panica, S. *Services for Applications Execution in Multi-Clouds Environments* Autonomic Computing (ICAC), 2016 IEEE International Conference on **2016**, pp. 343-348
18. G. Iuhasz, M. Tirea and V. Negru, "Neural Network Predictions of Stock Price Fluctuations," 2012 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, 2012, pp. 505-512, doi: 10.1109/SYNASC.2012.7.
19. Iuhasz Gabriel, Viorel Negru, and Daniela Zaharie. 2012. Neuroevolution based multi-agent system for micromanagement in real-time strategy games. In Proceedings of the Fifth Balkan Conference in Informatics (BCI '12). Association for Computing Machinery, New York, NY, USA, 32–39. <https://doi.org/10.1145/2371316.2371324>
20. Pop, D., Iuhasz, G. and Petcu, D. *Distributed Platforms and Cloud Services: Enabling Machine Learning for Big Data* Data Science and Big Data Computing Springer International Publishing, **2016**, pp. 139-159
21. G. Iuhasz and D. Petcu, "Perspectives on Anomaly and Event Detection in Exascale Systems," 2019 IEEE 5th Intl Conference on Big Data Security on Cloud (BigDataSecurity), IEEE Intl Conference on High Performance and Smart Computing, (HPSC) and IEEE Intl Conference on Intelligent Data and Security (IDS), Washington, DC, USA, 2019, pp. 225-229, doi: 10.1109/BigDataSecurity-HPSC-IDS.2019.00051.

iv) Lista brevetelor de invenție și a altor titluri de proprietate industrială:

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v) Lista cărților

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vi) Lista capitolelor de cărți:

1. Iuhasz, G., Jamshidi, P., Wang, W. and Casale, G. Load Balancing for Multi-cloud Model-Driven Development and Operation of Multi-Cloud Applications Springer International Publishing, 2017, pp. 53-58
2. Iuhasz, G., Panica, S., Crăciun, C. and Petcu, D. Deployment of Cloud Supporting Services Model-Driven Development and Operation of Multi-Cloud Applications Springer International Publishing, 2017, pp. 69-80
3. Wang, W., Casale, G. and Iuhasz, G. Closing the Loop Between Ops and Dev Model-Driven Development and Operation of Multi-Cloud Applications Springer International Publishing, 2017, pp. 95-105
4. Pop, D., Iuhasz, G. and Petcu, D. Distributed Platforms and Cloud Services: Enabling Machine Learning for Big Data Data Science and Big Data Computing Springer International Publishing, 2016, pp. 139-159
5. Drăgan I., Fortiș TF., Iuhasz G., Neagul M., Petcu D. (2017) Applying Self-* Principles in Heterogeneous Cloud Environments. In: Antonopoulos N., Gillam L. (eds) Cloud Computing. Computer Communications and Networks. Springer

vii) Alte lucrări și contribuții științifice

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