LIST OF SCIENTIFIC PUBLICATIONS

Zoran Constantinescu

PhD thesis

Constantinescu, Zoran - *A Desktop Grid Computing Approach for Scientific Computing and Visualization*, (2008), Norwegian University of Science and Technology (NTNU), Computer Science, 250pg., supervisor: Professor Richard E. Blake. https://hdl.handle.net/11250/249747

Books and book chapters (3 international, 7 national)

1. **Constantinescu, Z.**, Vlădoiu, M., *Arhitectura Sistemelor de Calcul,* UPG University Publishing House, Ploieşti, 2023, 702pg., e-book, ISBN 978-973-719-897-6;

2. Vlădoiu, M., Nicoară, S., **Constantinescu, Z.**, *Proiecte Academice și Lucrări Științifice în Informatică*, UPG University Publishing House, Ploieşti, 2022, 296pg., e-book, ISBN 978-973-719-839-6;

3. Vlădoiu, M., **Constantinescu, Z.**, Moise, G., *Structuri de Date Fundamentale*, UPG University Publishing House, Ploieşti, 2016, 612 pg., ISBN 978-973-719-664-4;

4. Vlădoiu, M., **Constantinescu, Z.**, Moise, G., *Ingineria Programării - Fundamente*, Vol. I, UPG University Publishing House, Ploieşti, 2015, 468 pg., ISBN 978-973-719-609-5;

5. Moise, G., **Constantinescu, Z.**, Vlădoiu, M., Dumitru, M., *Networking şi Securitate*, UPG University Publishing House, Ploieşti, 2015, 605 pg., ISBN 978-973-719-607-1;

6. Moise, G., Vlădoiu, M., **Constantinescu, Z.**, *MASECO – A Multi-Agent System for Evaluation and Classification of OERs and OCW Based on Quality Criteria*, 2013, book chapter, Ivanović & Jain (eds) E-Learning Paradigms and Applications. Studies in Computational Intelligence. 528, pg.185-227, ISBN 978-3-642-41965-2. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-41965-2_7. *Scopus*;

7. **Constantinescu, Z.**, Moise, G., Criptarea Informatiei. Ghid practic, UPG University Publishing House, Ploieşti, 2013, ISBN 978-973-719-522-7;

8. **Constantinescu, Z.**, Vlădoiu, M., Using Open Source Desktop Grids in Scientific Computing and Visualization, 2011, book chapter, Advances in Grid Computing, InTech Open Access Publisher, pg.147-172, ISBN 978-953-307-301-9, https://doi.org/10.5772/596;

9. **Constantinescu, Z.** (editor), Advances in Grid Computing, InTech Open Access Publisher, 2011, ISBN 978-953-307-301-9, https://doi.org/10.5772/596;

10. **Constantinescu, Z.**, *A Desktop Grid Computing Approach for Scientific Computing and Visualization*, 2008, PhD thesis, Norwegian University of Science and Technology (NTNU), ISBN: 978-82-471-9158-3, online https://hdl.handle.net/11250/249747

Patents (1 international, 2 national)

1. OSIM patent no. RO133286B1/2025 - Octavian Narcis Ionescu, **Constantinescu Zoran**, Gabrila Cristina Ionescu, Monica Vladoiu – „Sistem si metoda de masurare a ratei de regresie pentru combustibili solizi realizati prin tehnologie printare 3D", (System and method for measuring the regression rate of solid fuels made by 3D printing technology), UPG University of Ploieşti.

2. OSIM patent no. RO133285B1/2024 - **Constantinescu Zoran**, Octavian Narcis Ionescu, Gabrila Cristina Ionescu, Monica Vladoiu – „Sistem de senzori de presiune inclus in structura ajutajului motoarelor racheta", (Pressure sensor system included within the structure of rocket engine nozzle), UPG University of Ploieşti.

3. US Patent Office patent US10972486B2 (2021), European Patent Office patent EP3704618B1 (2025) - Octavian Ionescu, **Zoran Constantinescu**, Bogdan Catalin Serban, Octavian Buiu, Andrei Buiu – „Cyber security system for networked devices", Cyberswarm Inc. USA.

Scientific papers indexed in international databases

1. **Constantinescu, Z.**, & Vlădoiu, M. (2021). *viztop – Intuitive Visualization of Remote Real-Time Monitoring of Linux Processes*, Proc. of the 20th RoEduNet Conference: Networking in Education and Research-RoEduNet 2021, 1-6. IEEE. doi: 10.1109/RoEduNet54112.2021.9638285. *Google Scholar, IEEE Xplore, Scopus;*

2. Vlădoiu, M., & **Constantinescu, Z.** (2020). *Learning during COVID-19 pandemic: Online education community, based on Discord*. Proc. of the 19th RoEduNet Conference: Networking in Education and Research-RoEduNet 2020, 1-6. IEEE. doi: 10.1109/RoEduNet51892.2020.9324863. *Google Scholar, IEEE Xplore, Scopus, WOS;*

3. **Constantinescu, Z.**, & Vlădoiu, M. (2020). *Towards Vehicular Fog Computing: an Architecture for Connected Vehicles and Vehicular Clouds*. Proc. of the 19th RoEduNet Conference: Networking in Education and Research-RoEduNet 2020, 1-6. IEEE. doi: 10.1109/RoEduNet51892.2020.9324868. *Google Scholar, IEEE Xplore, Scopus, WOS;*

4. Vlădoiu, M., **Constantinescu, Z.** & Danciulescu, D. (2019). *Career Tracks and Job Requirements in Information Systems vs. ACM/AIS IS 2010 Curriculum Guidelines: An Empirical Study*. Proc. of the 28th International Conference on Information Systems Development (ISD2019), Siarheyeva et al. (Eds.); *Google Scholar, AIS.eLibrary, Scopus, CORE-A;*

5. Vlădoiu, M., Moise, G., & **Constantinescu, Z.** (2018). *Towards Building Creative Collaborative Learning Groups Using Reinforcement Learning.* Proc. of the 27th Int'l Conference on Information Systems Development (ISD2018), Andersson et al. (Eds.). Lund University. *Google Scholar, AIS.eLibrary, Scopus, CORE-A;*

6. **Constantinescu, Z.**, & Vlădoiu, M. (2018). *Towards Effective and Efficient Data Management in Embedded Systems and Internet of Things*. Proc. of the 27thInternational Conference on Information Systems Development-ISD2018, Andersson et al. (Eds.). Lund University. *Google Scholar, AIS.eLibrary, Scopus, CORE-A;*

7. Vlădoiu, M., Moise, G., & **Constantinescu, Z.** (2018). *Towards a Systematic Approach of Relational Database Watermarking*. Proc. of the 27th Int'l Conf. on Information Systems Development-ISD2018, Andersson et al. (Eds.). Lund University. *Google Scholar, AIS.eLibrary, Scopus, CORE-A;*

8. Moise, G., Vlădoiu, M., & **Constantinescu, Z.** (2018). *Towards Construction of Creative Collaborative Teams Using Multiagent Systems*. Proc. of the 27th Int'l Conf. on Information Systems Development-ISD2018, Andersson et al. (Eds.). Lund University. *Google Scholar, AIS.eLibrary, Scopus, CORE-A;*

9. Vlădoiu, M., **Constantinescu, Z.**, & Moise, G. (2017). *A New Collaborative Paradigm of Computer Science Student Contests: An Experience*. Proc. of the 25th International Conference on Cooperative Information Systems (CoopIS 2017)/On the Move to Meaningful Internet Systems (OTM 2017) Conferences, Panetto H. et

al. (eds). LNCS 10573, 284-297. Springer, Cham; doi.org/10.1007/978-3-319-69462-7_18. *Google Scholar, Scopus, CORE-A*;

10. Moise, G., Vlădoiu, M., & **Constantinescu, Z.** (2017). *Building the Most Creative and Innovative Collaborative Groups Using Bayes Classifiers*. Proc. of the 25th Int'l Conference on Cooperative Information Systems (CoopIS 2017)/On the Move to Meaningful Internet Systems (OTM 2017) Conferences, Panetto et al. (eds). LNCS 10573, 271-283. Springer, Cham; doi.org/10.1007/978-3-319-69462-7_17. *Google Scholar, Scopus, CORE-A*;

11. Moise, G., Vlădoiu, M., & **Constantinescu, Z.** (2017). *Factors influencing group creativity of Computer Science Students – A Fuzzy Cognitive Map*. Proc of the 5th International Conference Modelling and Development of Intelligent Systems (MDIS 2017), 50-59, Lucian Blaga University Press. *Google Scholar, Zentralblatt*.

12. **Constantinescu, Z.**, Nicoara, S., Vlădoiu, M., & Moise, G. (2017). *Computer science student contests: Individuals or teams?*. Proc. of the 16th RoEduNet Conference: Networking in Education and Research (RoEduNet 2017), 1-6. IEEE. doi: 10.1109/ROEDUNET.2017.8123737. *Google Scholar, IEEE Xplore, Scopus, WOS*.

13. **Constantinescu, Z.**, Vlădoiu, M., Moise, G. (2016). *VizNet – Dynamic Visualization of Networks.* Proc. of the 15th RoEduNet Conference: Networking in Education and Research (RoEduNet), 1-6. IEEE. doi: 10.1109/RoEduNet.2016.7753217. *Google Scholar, IEEE Xplore, Scopus, WOS*;

14. Moise, G., **Constantinescu, Z.**, & Vlădoiu, M. (2015). *Toward Increasing Learning Group Creativity within Computer Supported Collaborative Learning*. Journal of Science and Arts (JOSA), Supplement at no. 1(30), 37-42. *Google Scholar*;

15. Moise, G., Vlădoiu, M., & **Constantinescu, Z.** (2014). *GC-MAS - a Multiagent System for Building Creative `Groups used in Computer Supported Collaborative Learning*, Proc. of the 8th Int'l KES Conf. on Agents and Multi-agent Systems – Technologies and Applications (KES-AMSTA 2014), Jezic et al. (Eds), Agent and Multi-Agent Systems: Technologies and Applications, Advances in Intelligent Systems and Computing, 296, 313-323. Springer, Cham. doi.org/10.1007/978-3-319-07650-8_31. *ISI Proceedings, Google Scholar, Scopus, CORE-C*;

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24. Vlădoiu, M., **Constantinescu, Z.** (2011). *u-Learning within a Context-Aware Multiagent Environment*, International Journal of Computer Networks & Communications (IJCNC), 3(1), 1-15. AIRCC. doi: 10.5121/ijcnc.2011.3101. *Google Scholar, WOS*;

25. **Constantinescu, Z.**, & Vlădoiu, M. (2010).*The BMIF Journal's Online Peer Review System*, BMIF - UPG University of Ploieşti Scientific Bulletin, Mathematics-Informatics-Physics Series, LXI(1), 27-32. UPG Publishing House. *Google Scholar, Zentralblatt, American Mathematical Society*;

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