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LISTA DE LUCRARI PUBLICATE

1. Teza de doctorat

„Sisteme senzitive adaptive la context cu aplicabilitate in centre de servicii green”
Conducător științific: Prof.dr.ing. Ioan Salomie
Universitatea Tehnica din Cluj-Napoca, Facultatea de Automatica si Calculatoare
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2. Cărți și capitole în cărți

2.1 CĂRȚI

1. M. Antal, C. Pop, D. Moldovan, T. Petrican, C. Stan, I. Salomie, **T. Cioara**, I. Anghel, *Distributed Systems – Laboratory Guide*, Editura UTPRESS Cluj-Napoca, 2018 ISBN 978-606-737-329-5
2. **T. Cioara**, I. Anghel - *Distributed Frameworks for Managing Cyber Physical Production Systems in Smart Factories*, UT Press, 2018, ISBN: 978-606-737-296-0, 105 pagini.
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4. I. Anghel, **T. Cioara** - *Ambient Intelligence for Elders Care*, UT Press, 2018, ISBN: 978-606-737-297-7, 85 pagini.
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2.2 CAPITOLE DE CARTE

1. C. Pop, M. Antal, **T. Cioara**, I. Anghel, Trading Energy as a Digital Asset: A Blockchain based Energy Market, Cryptocurrencies and Blockchain Technologies and Applications: Decentralization and Smart Contracts, July 2020, Eds.: Shrivastava Gulshan, Le Dac-Nhuong, Sharma Kavita. Wiley-Scrivener ISBN: 978-1-119-62116-4
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5. A. Kipp, T. Jiang, J. Liu, M. Fugini, I. Anghel, **T. Cioara**, D. Moldovan, I. Salomie, Energy-Aware provisioning of HPC services with virtualised web services, *Evolutionary Based Solutions for Green Computing*, Vol. 432, 2013, pp 29-53.

3. Articole in reviste din fluxul stiintific international

3.1 Articole în reviste de specialitate de circulație internațională cotate ISI

1. Anghel, I.; **Cioara**, T.; Moldovan, D.; Antal, M.; Pop, C.D.; Salomie, I.; Pop, C.B.; Chifu, V.R. Smart Environments and Social Robots for Age-Friendly Integrated Care Services. *Int. J. Environ. Res. Public Health* 2020, 17, 3801. **IF: 2.849 Q1**
2. Moldovan, D.; Anghel, I.; **Cioara**, T.; Salomie, I. Adapted Binary Particle Swarm Optimization for Efficient Features Selection in the Case of Imbalanced Sensor Data. *Appl. Sci.* 2020, 10, 1496., **IF: 2.474 Q2**
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6. Pop, C.; Antal, M.; **Cioara**, T.; Anghel, I.; Sera, D.; Salomie, I.; Raveduto, G.; Ziu, D.; Croce, V.; Bertoncini, M. Blockchain-Based Scalable and Tamper-Evident Solution for Registering Energy Data. *Sensors* 2019, 19, 3033. **IF:3.275 Q1**
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9. Marcel Antal, Claudia Pop, Teodor Petrican, Andreea Valeria Vesa, **Tudor Cioara**, Ionut Anghel, Ioan Salomie, Ewa Niewiadomska-Szynkiewicz, MoSiCS: Modeling, simulation and optimization of complex systems—A case study on energy efficient datacenters, *Simulation Modelling Practice and Theory*, 2019, ISSN 1569-190X **IF: 2.219 Q2**
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12. **T. Cioara**, I. Anghel, M. Bertoncini, I. Salomie, D. Arnone, M. Mammina, T. Velivassaki, M. Antal, „Optimized Flexibility Management enacting Data Centres Participation in Smart Demand Response Programs”, *Journal of Future Generation Computer Systems*, Volume 78, Part 1, January 2018, Pages 330-342., ISSN: 0167-739X. **IF: 6.125 Q1**
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1. I. Anghel, C. B. Pop, **T. Cioara**, I. Salomie, I. Vartic, „A Swarm-inspired Technique for Self-Organizing and Consolidating Data Centre Servers”, *Journal of Scalable Computing: Practice and Experience*, Vol 14, No.2, 2013, pp. 69–82, ISSN 1895-1767. **[DBLP][Index Copernicus]**
2. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, „A Generic Context Model Enhanced with Self-configuring Features”, *Journal of Digital Information Management*, Vol. 7, No 3, 2009, pp. 159-165, ISSN: 0972-7272. **[DBLP]**
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4. M. Dinsoreanu, I. Salomie, C. Rat, S. Suci, **T. Cioara**, I. Anghel, I. Dragan, L. Ardelean, I. Carja, „Hierarchical Data Models for the ArhiNet Ontology Representation and Processing”, *Automation, Computers, Applied Mathematics Journal*, Vol.18/2, 2009, pp. 289-295, ISSN: 1221-437X. **[Mathematical Reviews]**
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6. **T. Cioara**, I. Anghel, I. Salomie, G. Copil, D. Moldovan, B. Pernici, „A Context Aware Self-Adapting Algorithm for Managing the Energy Efficiency of IT Service Centres”, *Ubiquitous Computing And Communication Journal – Special Issue of RoEduNet*, 2011, pp. 619 - 630, ISBN: 1994-4608. **[ProQuest]**

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4.1 Articole cotate ISI

1. M. Antal, C. Pop, D. Valea, **T. Cioara**, I. Anghel, I. Salomie, *Optimizing Data Centres Operation to Provide Ancillary Services On-demand*, in „*Economics of Grids, Clouds, Systems, and Services. Lecture Notes in Computer Science*”, GECON 2015, vol. 9512, ISBN: 978-3-319-43176-5, Springer International Publishing Switzerland, 2016.
2. Dorin Moldovan, Ionut Anghel, Tudor Cioara, Ioan Salomie, Viorica Chifu, and Cristina Pop, Kangaroo Mob Heuristic for Optimizing Features Selection in Learning the Daily Living Activities of People with Alzheimer's, CSCS22, 2019, https://cscs22.hpc.pub.ro/wp-content/uploads/2019/05/CSCS22-final_program-1.pdf
3. D. Moldovan, A. Visovan, M. Bologa, C. Pop, V. R. Chifu, I. Anghel, T. Cioara and I. Salomie, Random Forest and Sequential Model for Anomalies Detection in the Activities of the People with Dementia, MediTech 2018, IFMBE Proceedings, vol 71. Springer, Singapore, 2019, https://link.springer.com/chapter/10.1007/978-981-13-6207-1_32
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5. **T. Cioara**, I. Salomie, I. Anghel, I. Chira, A. Cocian, E. Henis, R. Kat, A Dynamic Power Management Controller for Optimizing Servers' Energy Consumption in Service Centers, in „*Service-Oriented Computing Volume 6568 of the series Lecture Notes in Computer Science*”, ICSOC2010, ISBN: 978-3-642-19393-4, Springer, 2011.
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11. I. Salomie, I. Anghel, **T. Cioara**, M. Dinsoreanu, „A Context Awareness Model Enhanced with Autonomic Features”, *Proceedings of the 4th International Conference on Intelligent Computer Communication and Processing*, 28 – 30 August 2008, Cluj-Napoca, Romania, pp. 239-246. [IEEE][ISI]
12. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, „RAP A Basic Context Awareness Model”, *Proceedings of the 4th International Conference on Intelligent Computer*

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13. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, „A Generic Context Model with Autonomic Features”, *Proceedings of the 3rd International Conference on Digital Information Management*, November 13-16, 2008, London, UK, pp. 891-896. [IEEE][ISI]
 14. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, T. I. Salomie, „A Layered Workflow Model Enhanced with Process Algebra Verification for Industrial Processes”, *Proceedings of the 3rd International Conference on Intelligent Computer Communication and Processing*, 6-8 September 2007, Cluj-Napoca, Romania, pp. 185-192. [IEEE][ISI]
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 19. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, „A Policy-Based Context Aware Self-Management Model”, *Proceedings of the 2009 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, 26-29 September 2009, Timisoara, Romania, pp. 333 – 340. [IEEE][ISI]
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 21. D. Moldovan, M. Antal, D. Valea, C. Pop, **T. Cioara**, I. Anghel, I. Salomie, „Tools for Mapping Ontologies to Relational Databases: A Comparative Evaluation”, *Processing of the 2015 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP2015)*, 3-5 September 2015, Cluj-Napoca, Romania, pp.77-84. [IEEE][SCOPUS][ISI]
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29. M. Antal, A. Burnete, C. Pop, **T. Cioara**, I. Anghel and I. Salomie, "Self-adaptive task scheduler for dynamic allocation in energy efficient data centers," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2017, pp. 535-541. ISBN: 978-1-5386-3368-7 [IEEE][SCOPUS] [ISI]
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33. Viorica Rozina Chifu, Cristina Bianca Pop, Tudor Cioara, Ionut Anghel, Dorin Moldovan and Ioan Salomie, Identifying the Polypharmacy Side-Effects in Daily Life Activities of Elders with Dementia, *Volume 798 of the Studies in Computational Intelligence series*, ISSN 978-3-319-99625-7, IDC 2018. [ISI]
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35. Dorin Moldovan, Adrian Olosutean, Viorica Chifu, Cristina Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, Big Data Analytics for the Daily Living Activities of the People

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3. Razvan Zanc, Tudor Cioara, Ionut Anghel, Forecasting Financial Markets using Deep Learning, ICCP 2019, Cluj-Napoca, Romania
4. Andreea Valeria Vesa, Nicoleta Ghitescu, Claudia Pop, Marcel Antal, Tudor Cioara, Ionut Anghel, Ioan Salomie, A Stacking Multi-Learning Ensemble Model for Predicting Near

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5. M. Antal, **T. Cioara**, I. Anghel, C. Pop, I. Salomie, M. Bertoncini, and D. Arnone. „DC Thermal Energy Flexibility Model for Waste Heat Reuse in Nearby Neighborhoods”. *In Proceedings of the Eighth International Conference on Future Energy Systems (e-Energy '17)*. ACM, New York, NY, USA, 278-283 [ACM]
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