

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

Susținere publică: 09.07.2012

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.
3. I. Anghel, I. Salomie, **T. Cioara**, G. Copil, D. Moldovan - *Autonomic computing techniques for pervasive systems and energy efficient data centres*, U.T. Press, 2013, ISBN 978-973-662-850-4, 140 pagini.
4. I. Anghel, **T. Cioara** - *Ambient Intelligence for Elders Care*, UT Press, 2018, ISBN: 978-606-737-297-7, 85 pagini.
5. **T. Cioara**, I. Salomie, I. Anghel, D. Moldovan, G. Copil - *Context aware adaptive systems with applicability in green service centres*, UT Press, 2013, ISBN 978-973-662-851-1, 174 pagini.
6. I. Salomie, **T. Cioara**, I. Anghel, T. Salomie - *Distributed Computing and Systems*, Editura Albsatra, Cluj-Napoca, 2008, ISBN 978-973-650-234-7, 367 pagini.

2.2 CAPITOLE DE CARTE

1. I. Anghel, **T. Cioara**, I. Salomie, Context Aware and Reinforcement Learning based Load Balancing System for Green Clouds, in „*Resource Management for Big Data Platforms*”, book edited by Florin Pop, Joanna Kołodziej, Beniamino Di Martino, ISBN 978-3-319-44880-0 129-144, Springer Berlin Heidelberg, 2016.
2. **T. Cioara**, I. Anghel, D. Valea, I. Salomie, V. S. Martin, A. Marchena, E. Jimeno and M. Vastenburger, Adaptive Workspace Interface for Facilitating the Knowledge Transfer from Retired Elders to Start-up Companies, in „*Ambient Assisted Living and Enhanced Living Environments: Principles, Technologies and Control*”, book edited by: Ciprian Dobre, Constandinos X. Mavromoustakis, Nuno Garcia, Rossitza Ivanova Goleva and George Mastorakis, ISBN: 978-0-12-805195-5, Elsevier, 2016.

3. 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 în reviste din fluxul științific internațional

3.1 Articole în reviste de specialitate de circulație internațională cotate ISI

1. **T. Cioara**, Ionut Anghel, Ioan Salomie, Marcel Antal, Claudia Pop, Massimo Bertoncini, Diego Arnone, Florin Pop, „Exploiting data centres energy flexibility in smart cities: Business scenarios, Information Sciences”, 2018, ISSN 0020-0255 **IF: 4.378**
2. **T. Cioara**, I. Anghel, I. Salomie, L. Barakat, S. Miles, D. Reidlinger, A. Taweel, C. Dobre, F. Pop, „Expert system for nutrition care process of older adults”, *Future Generation Computer Systems*, Volume 80, March 2018, Pages 368-383, ISSN 0167-739X, **IF:4.787** [DOI](#).
3. M. Antal, C. Pop, **T. Cioara**, I. Anghel, I. Salomie, F. Pop, „A system of systems approach for data centers optimization and integration into smart energy grids”, *Future Generation Computer Systems*, Available online 24 May 2017, ISSN 0167-739X. **IF:4.787** [DOI](#)
4. **T. Cioara**, I. Anghel, I. Salomie, „Methodology for Energy Aware Adaptive Management of Virtualized Data Centers”, *Energy Efficiency Journal*, April 2017, Volume 10, Issue 2, pp 475–498 **IF: 1.592**, [DOI](#)
5. **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:4.787** [DOI](#)
6. M. Antal, **T. Cioara**, I. Anghel, C. Pop and I. Salomie, “Transforming Data Centers in Active Thermal Energy Players in Nearby Neighborhoods”, *Sustainability*, 2018, 10, 939. **IF:1.850** [DOI](#)
7. C. Pop, **T. Cioara**, M. Antal, I. Anghel, I. Salomie and M. Bertoncini, „Blockchain Based Decentralized Management of Demand Response Programs in Smart Energy Grids”, *Sensors*, 2018, 18(1), 162. **IF:2.964** [DOI](#)
8. A. Taweel, L. Barakat, S. Miles, **T. Cioara**, I. Anghel, A.-R. H. Tawil, I. Salomie, „A service-based system for malnutrition prevention and self-management”, *Journal of Computer Standards & Interfaces*, vol. 48, 2016, pp. 225–233, ISSN: 0920-5489. **IF:1.524** [DOI](#)
9. I. Anghel, **T. Cioara**, I. Salomie, M. Dinsoreanu, A. Rarau, „Middleware for Smart Environments Management”, *International Journal of Computers Communications & Control*, vol. 5, No. 2, 2010, pp. 148-159, ISSN 1841-9836. **IF:1.193** [DOI](#)

3.2 Articole în reviste de specialitate de circulație internațională cotate BDI

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]
3. I. Salomie, C. B. Pop, **T. Cioara**, I. Anghel, M. Grindean, I. Dragan, L. Ardelean, I. Carja, „Applying Rule-based Knowledge Acquisition on Historical Documents”, *Automation, Computers, Applied Mathematics Journal*, Vol. 18, No. 2, 2009, pp. 277-282, ISSN: 1221-437X. [Mathematical Reviews]
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]
5. I. Salomie, M. Dinsoreanu, **T. Cioara**, I. Anghel, T.I. Salomie, „Industrial Business Process Modeling, Verification and Simulation with Application in Food Industry”, *Automation, Computers, Applied Mathematics Journal*, Vol. 17, No. 1, 2008, pp. 102 - 111, ISSN: 1221-437X. [Mathematical Reviews]
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]

4. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

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. I. Anghel, M. Bertocini, **T. Cioara**, M. Cupelli, V. Georgiadou, P. Jahangiri, A. Monti, S. Murphy, A. Schoofs, T. Velivassaki, GEYSER: Enabling Green Data Centres in Smart Cities, in *Energy Efficient Data Centers*, E2DC 2014, vol. 8945, pp. 71-86, 2015.
3. **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.
4. I. Salomie, **T. Cioara**, I. Anghel, D. Moldovan, G. Copil, P. Plebani, An Energy Aware Context Model for Green IT 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.
5. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, G. Copil, D. Moldovan, A Self-Adapting Algorithm for Context Aware Systems, *Proceedings of the 9th IEEE RoEduNet International Conference*, 24-26 June 2010, Sibiu, Romania, pp. 374 – 379. [IEEE] [ISI]
6. I. Anghel, **T. Cioara**, I. Salomie, M. Dinsoreanu, A. Rarau, A Policy Driven Self-healing Algorithm for Context Aware Systems, *Proceedings of the 5th International Conference on Intelligent Computer Communication and Processing*, 27 – 29 August 2009, Cluj-Napoca, Romania, pp. 229-236. [IEEE][ISI]
7. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, ”A Context-based Semantically Enhanced Information Retrieval Model”, *Proceedings of the 5th International Conference*

- on Intelligent Computer Communication and Processing, 27-29 August 2009, Cluj-Napoca, Romania, pp. 245-250. [IEEE][SCOPUS][ISI]
8. I. Anghel, **T. Cioara**, I. Salomie, M. Dinsoreanu, A. Rarau, „A Self-Configuring Middleware for Managing Context Awareness”, *Proceedings of the International Conference on Wireless Information Networks and Systems*, 2009, pp. 131-138, BEST STUDENT PAPER AWARD. [DBLP][ISI]
 9. 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]
 10. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, „RAP A Basic Context Awareness Model”, *Proceedings of the 4th International Conference on Intelligent Computer Communication and Processing*, 28 – 30 August 2008, Cluj-Napoca, Romania, pp. 315-318. [IEEE][ISI]
 11. **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]
 12. 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]
 13. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, T. I. Salomie, „Machine Simulation for Workflow Integration Testing”, *Proceedings of the 3rd International Conference on Intelligent Computer Communication and Processing*, 6-8 September 2007, Cluj-Napoca, Romania, pp. 193-199. [IEEE][ISI]
 14. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, T. Salomie, „Workflow models enhanced with process algebra verification for industrial business processes”, *Proceedings of the 11th WSEAS International Conference on Computers*, July 23-28, 2007, Agios Nikolaos, Crete Island, Greece, pp. 501-506. [DBLP][ISI]
 15. I. Salomie, **T. Cioara**, I. Anghel, M. Dinsoreanu, T. Salomie, „Machine and business modeling and simulation for workflow integration”, *Proceedings of the 9th WSEAS International Conference on Automatic Control, Modeling & Simulation*, May 27 - 29, 2007, Istanbul, Turkey, pp. 165-170. [ACM][ISI]
 16. I. Anghel, **T. Cioara**, I. Salomie, M. Dinsoreanu, G. Copil, D. Moldovan, „An Autonomic Context Management Model based on Machine Learning”, *Proceedings of the 12th IEEE International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, 23-26 Sept. 2010, Timisoara, pp. 335 – 338. [IEEE][ISI]
 17. **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]
 18. **T. Cioara**, I. Anghel, M. Antal, S. Crisan, I. Salomie, „Data center optimization methodology to maximize the usage of locally produced renewable energy”, *Sustainable Internet and ICT for Sustainability (SustainIT)*, 14-15 April 2015, Madrid, Spain, pp. 1- 8. [IEEE][ISI]
 19. 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]
20. C. Pop, D. Moldovan, M. Antal, D. Valea, **T. Cioara**, I. Anghel, I. Salomie, „M2O: A Library for Using Ontologies in Software Engineering”, *Processing of the 2015 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP2015)*, 3-5 September 2015, Cluj-Napoca, Romania, pp. 69-74. [IEEE][SCOPUS][ISI]
 21. D. Moldovan, C. Pop, M. Antal, **T. Cioara**, I. Anghel, I. Salomie, „Semantic Web Application Generator – A Library for Using Ontologies as Web Services”, *2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP 2016)*, 8-10 September 2016, Cluj-Napoca, Romania, pp. 103-110. [IEEE][SCOPUS][ISI]
 22. M. Antal, C. Pinteaa, E. Pinteaa, C. D. Pop, **T. Cioara**, I. Anghel, I. Salomie, „Thermal Aware Workload Consolidation in Cloud Data Centers”, *2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP 2016)*, 8-10 September 2016, Cluj-Napoca, Romania, pp. 377-392. [IEEE][SCOPUS] [ISI]
 23. C. Pop, A. Craciun, C. Knoblaa, M. Antal, D. Moldovan, **T. Cioara**, I. Anghel and I. Salomie, "Semantic data factory: A framework for using domain knowledge in software application development," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2017, pp. 21-28. ISBN: 978-1-5386-3368-7 [IEEE][SCOPUS] [ISI]
 24. D. Moldovan, **T. Cioara**, I. Anghel and I. Salomie, "Machine learning for sensor-based manufacturing processes," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2017, pp. 147-154. ISBN: 978-1-5386-3368-7 [IEEE][SCOPUS] [ISI]
 25. T. Petrican, C. Stan, M. Antal, I. Salomie, **T. Cioara** and I. Anghel, "Ontology-based skill matching algorithms," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2017, pp. 205-211. ISBN: 978-1-5386-3368-7 [IEEE][SCOPUS] [ISI]
 26. M. Antal, C. Pop, **T. Cioara**, I. Anghel, I. Tamas and I. Salomie, "Proactive day-ahead data center operation scheduling for energy efficiency: Solving a MIOCP using a multi-gene genetic algorithm," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2017, pp. 527-534. ISBN: 978-1-5386-3368-7 [IEEE][SCOPUS] [ISI]
 27. 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]
 28. D. Moldovan, P. Stefan, C. Vuscan, V. R. Chifu, I. Anghel, **T. Cioara**, I. Salomie, „Diet Generator for Elders using Cat Swarm Optimization and Wolf Search”, *International Conference on Advancements of Medicine and Health Care through Technology*; 12th - 15th October 2016, Cluj-Napoca, Romania, IFMBE Proceedings, vol 59. Springer, pp 238-243, 2017 [SCOPUS]
 29. **T. Cioara**, I. Anghel, I. Salomie, A Self-configuring Middleware Solution for Context Management, in „*e-Business and Telecommunications Volume 130 of the series Communications in Computer and Information Science*”, ICETE 2009, ISBN: 978-3-642-20076-2, Springer Heidelberg, 2011. [ISI]
 30. I. Anghel, **T. Cioara**, I. Salomie, ICT Architecture for Supporting Elder Employees to Make Conscious Decisions Under Time Pressure. in „*State-of-the-Art and Future*

- Directions of Smart Learning. Lecture Notes in Educational Technology*”, ISBN: 978-981-287-866-3, Springer, Singapore, 2016. [ISI]
31. 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]
 32. Cristian Pinteaa, Eugen Pinteaa, Marcel Antal, Claudia Pop, Cioara Tudor, Ionut Anghel and Ioan Salomie, CoolCloudSim: Integrating Cooling System Models in CloudSim, *14th International Conference on Computer Communication and Processing (ICCP 2018)*. [ISI]
 33. 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 with Dementia, *14th International Conference on Computer Communication and Processing (ICCP 2018)*. [ISI]
 34. Claudia Pop, Marcel Antal, Cristian Pop, Andreea Valeria Vesa, Cioara Tudor, Ionut Anghel, Ioan Salomie and Teodor Petrican Descentralizing the Stock Exchange using Blockchain: An Ethereum-based implementation of the Bucharest Stock Exchange, *14th International Conference on Computer Communication and Processing (ICCP 2018)* [ISI]
 35. Teodor Petrican, Andreea Valeria Vesa, Marcel Antal, Claudia Pop, Tudor Cioara, Ionut Anghel and Ioan Salomie Evaluating Forecasting Techniques for Integrating Household Energy Prosumers into Smart Grids, *14th International Conference on Computer Communication and Processing (ICCP 2018)*. [ISI]
 36. Roxana Jurca, Tudor Cioara, Ionut Anghel, Marcel Antal, Claudia Pop, Dorin Moldovan, Activities of Daily Living Classification using Recurrent Neural Networks, *RoEduNet Conference 2018*. [ISI]
 37. Dorin Moldovan, Viorica Chifu, Cristina Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, Chicken Swarm Optimization and Deep Learning for Manufacturing Processes, *RoEduNet Conference 2018*. [ISI]
 38. Ionut Anghel, Tudor Cioara, Dorin Moldovan, Ioan Salomie and Madalina Maria Tomus, Prediction of Manufacturing Processes Errors: Gradient Boosted Trees Versus Deep Neural Networks, *EUC-2018*. [ISI]
 39. D. Moldovan, M. Antal, C. Pop, A. Olosutean, **T. Cioara**, I. Anghel, and I. Salomie, Spark-based Classification Algorithms for Daily Living Activities, *Advances in Intelligent Systems and Computing Series*, ISSN 2194-5357, CSOC 2018, <https://www.openpublish.eu/ConferenceProgramme> [ISI]
 40. I. Anghel, **T. Cioara**, T. Velivassaki, M. Bertocini, A. Voulkidis, A. Oleksiak, N. Saintherant, V. Georgiadou, M. A. Paglia and C. Pop, Converting Data Centres in Energy Flexibility Ecosystems, *2018 IEEE Industrial and Commercial Power Systems Europe*. <https://www.eeeic.net/eeeic/EEEICdownload/EEEIC2018PreliminaryProgram.pdf> [ISI]
 41. **T. Cioara**, M. Bertocini, D. Ioannidis, V. Croce, I. Anghel, K. Votis, C. Pop and L. D'Oriano, Enabling New Tehnologies for Demand Response Decentralized Validation using Blockchain, *2018 IEEE Industrial and Commercial Power Systems Europe*. <https://www.eeeic.net/eeeic/EEEICdownload/EEEIC2018PreliminaryProgram.pdf> [ISI]

4.2 Articole indexate BDI

1. B. Pernici, C. Cappiello, M. G. Fugini, P. Plebani, M. Vitali, I. Salomie, I. Anghel, **T. Cioara**, et al., Setting energy efficiency goals in data centres: the GAMES approach – Energy Efficient Data Centers, in „*Energy Efficient Data Centers*, vol. 7396 of the series *Lecture Notes in Computer Science*”, E2DC2012, ISBN 978-3-642-33644-7, Springer Heidelberg, 2012. [SPRINGER]
2. 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]
3. **T. Cioara**, I. Anghel, I. Salomie, M. Antal, M. Bertoncini, D. Arnone, „Optimizing the Power Factor of Data Centers Connected to the Smart Grid”, *Proceedings of the 5th International Workshop on Energy Efficient Data Centres*, Article No. 3, June 21 – 24, 2016, Waterloo, Ontario, Canada. [ACM]
4. M. Bertoncini, D. Arnone, **T. Cioara**, I. Anghel, I. Salomie, T. H. Velivassaki, „Next Generation Data Centers Business Models Enabling Multi - Resource Integration for Smart City Optimized Energy Efficiency”, *Proceedings of the 2015 ACM Sixth International Conference on Future Energy Systems*, July 14 – 17 2015, Bangalore, India, pp. 247-252. [ACM]
5. M. Antal, I. Tamas, **T. Cioara**, I. Anghel, I. Salomie, „A Swarm-based algorithm for Optimal Spatial Coverage of an Unknown Region”, *Processing of the IEEE 9th International Conference on Intelligent Computer Communication and Processing (ICCP2013)*, 5-7 September 2013, Cluj-Napoca, Romania, pp. 7-14. [IEEE][SCOPUS]
6. C. B. Pop, I. Anghel, **T. Cioara**, I. Salomie, I. Vartic, „A Swarm-inspired Data Center Consolidation Methodology”, *International Conference on Web Intelligence, Mining and Semantics (WIMS'12)*, June 13 - 15, 2012, Craiova, Romania, pp. 1-7. [DBLP]
7. D. Moldovan, G. Copil, I. Salomie, I. Anghel, **T. Cioara**, „A Membrane Inspired Model Applied on Service Center Workload Distribution”, *Processing of the IEEE 8th International Conference on Intelligent Computer Communication and Processing*, 30 August - 1 September, Cluj-Napoca, Romania, 2012, pp. 281-288.[IEEE][SCOPUS]
8. G. Copil, D. Moldovan, I. Salomie, **T. Cioara**, I. Anghel, D. Borza, „Cloud SLA Negotiation for Energy Saving – A Particle Swarm Optimization Approach”, *Processing of the IEEE 8th International Conference on Intelligent Computer Communication and Processing*, 30 August - 1 September, Cluj-Napoca, Romania, 2012, pp. 289-296. [IEEE][SCOPUS]
9. A. Cosinschi, C. Botau, **T. Cioara**, I. Anghel, I. Salomie, „A Workload Prediction Based Controller for Energy-Efficient Resource Allocation in Virtualized Data Centers”, *Proceedings of the 2012 IEEE 21st International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises*, 25-27 June 2012, Toulouse, France, pp. 109-114. [ACM]
10. **T. Cioara**, I. Anghel, I. Salomie, D. Moldovan, G. Copil, A. Kipp, „Energy Aware Dynamic Resource Consolidation Algorithm for Virtualized Service Centers based on Reinforcement Learning”, *Proceedings of the 10th International Symposium on Parallel and Distributed Computing*, 6-8 July 2011, Cluj-Napoca, Romania, pp. 163-169. [IEEE][ACM]
11. I. Anghel, **T. Cioara**, I. Salomie, G. Copil, D. Moldovan, C. Pop, „Dynamic Frequency Scaling Algorithms for Improving the CPU's Energy Efficiency”, *Proceedings of the IEEE*

- 7th International Conference on Intelligent Computer Communication and Processing - Special Session: Green Computing, 25-27 August 2011, Cluj-Napoca, Romania, pp. 485 – 491. [IEEE][SCOPUS]*
12. **T. Cioara**, I. Anghel, I. Salomie, G. Copil, D. Moldovan, M. Grindean, „Time Series based Dynamic Frequency Scaling Solution for Optimizing the CPU Energy Consumption”, *Proceedings of the IEEE 7th International Conference on Intelligent Computer Communication and Processing - Special Session: Green Computing, 25-27 August 2011, Cluj-Napoca, Romania, pp. 477 – 483. [IEEE][SCOPUS]*
 13. G. Copil, **T. Cioara**, I. Anghel, I. Salomie, D. Moldovan, D. Borza, „A Genetic-inspired Negotiation Algorithm for QoS and Energy Consumption Tradeoffs in Virtualized Service Centers”, *Proceedings of the IEEE 7th International Conference on Intelligent Computer Communication and Processing - Special Session: Green Computing, 25-27 August 2011, Cluj-Napoca, Romania, pp. 471 – 476. [IEEE][SCOPUS]*
 14. **T. Cioara**, I. Anghel, **I. Salomie**, D. Moldovan, G. Copil, P. Plebani, „Dynamic Consolidation Methodology for Optimizing the Energy Consumption in Large Virtualized Service Centers”, *Proceedings of the 3rd Workshop on Software Services: Semantic-based software services, 18 -21 September 2011, Szczecin, Poland, pp. 1005 - 1011. [IEEE]*
 15. I. Anghel, **T. Cioara**, I. Salomie, G. Copil, D. Moldovan, „An Autonomic Algorithm for Energy Efficiency in Service Centers”, *Proceedings of the 2010 IEEE International Conference on Intelligent Computer Communication and Processing, 26-28 August 2010, Cluj-Napoca, Romania, pp. 281 – 288. [IEEE][SCOPUS]*
 16. **T. Cioara**, C. B. Pop, I. Anghel, I. Salomie, M. Dinsoreanu, I. Condor, F. Mihaly, „Immune-inspired Technique for Optimizing Server’s Energy Consumption”, *Proceedings of the 2010 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP2010), 26-28 August 2010, Cluj-Napoca, Romania, 2010, pp. 273 – 280. [IEEE][SCOPUS]*
 17. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, G. Copil, D. Moldovan, „A Reinforcement Learning based Self-healing Algorithm for Managing Context Adaptation”, *Proceedings of the 12th International Conference on Information Integration and Web-based Applications & Services (iiWAS2010), 8-10 November 2010, Paris, France, 2010, pp. 859-862. [DBLP][ACM]*
 18. **T. Cioara**, I. Anghel, I. Salomie, M. Dinsoreanu, A. Rarau, „A Self-configuring Middleware for Developing Context Aware Applications”, *KEPT2009, Studia Universitatis Babeș-Bolyai, Series Informatica, Special Issue: Knowledge Engineering: Principles and Techniques, vol. LIV, 2009, pp. 300-304, ISSN: 1224-869x. [ISI]*

5. Lucrări publicate reviste și volume de conferințe cu referenți (neindexate)

1. A. Taweel, S. Miles, L. Barakat, I. Salomie, **T. Cioara**, I. Anghel, T. Sanders, J.Charvill, ” DIET4Elders: A service-oriented architecture for the prevention and self-management of malnutrition, Broader, Bigger, Better” - AAL solutions for Europe, *Proceedings of the AAL Forum 2014 Bucharest Romania.*
2. I. Anghel, **T. Cioara**, I. Salomie, M. Dinsoreanu, „An Agent-based Context Awareness Management Framework”, *Proceedings of the 8-th International Conference RoEduNet 2009, 3-4 December 2009, Galați, România, pp. 107-113.*
3. I. Salomie, S. Nedevschi, M. Dinsoreanu, **T. Cioara**, I. Anghel, I.T. Salomie, „Workflow Integration Testing for Complex Industrial Processes using Machine Simulation with

Application in Food Industry”, *Proceedings of the Workshop on Traceability and Systems for Traceability, ICCP 2008*, Cluj-Napoca, Romania, 2008.

4. I. Salomie, S. Nedevschi, M. Dinsoreanu, **T. Cioara**, I. Anghel, I. T. Salomie, C. B. Pop, S. L. Suci, „Industrial Workflow Verification using Process Algebra”, *Proceedings of Workshop on Traceability and Systems for Traceability, ICCP 2008*, Cluj-Napoca, Romania, 2008.
5. S. Nedevschi, I. Salomie, M. Dinsoreanu, **T. Cioara**, I. Anghel, I. T. Salomie, C. B. Pop, S. L. Suci, „Methodology for Industrial Business Process Modeling with Upstream and Downstream Traceability Features”, *Proceedings of the Workshop on Traceability and Systems for Traceability, ICCP 2008*, Cluj-Napoca, Romania, 2008.

Semnătura