

## Lista Lucrari

Antal Marcel

### Jurnale ISI

Nr.	ISI Journal	An	Factor Impact	Citari
1.	Tudor Cioara, Ionut Anghel, Massimo Bertoncini, Ioan Salomie, Diego Arnone, Marzia Mammina, Terpsichori-Helen Velivassaki, <b>Marcel Antal</b> , Optimized Flexibility Management enacting Data Centres Participation in Smart Demand Response Programs , <b>Future Generation Computer Systems Journal</b> , 2016, ISSN 0167-739X	2016	4.639	12
2.	<b>Marcel Antal</b> , Claudia Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, Florin Pop, A System of Systems approach for data centers optimization and integration into smart energy grids, <i>Future Generation Computer Systems</i> , 2017, ISSN 0167-739X, <a href="https://doi.org/10.1016/j.future.2017.05.021">https://doi.org/10.1016/j.future.2017.05.021</a>	2017	4.639	5
3.	<b>Antal, M.</b> ; Cioara, T.; Anghel, I.; Pop, C.; Salomie, I. Transforming Data Centers in Active Thermal Energy Players in Nearby Neighborhoods. <i>Sustainability</i> <b>2018</b> , <i>10</i> , 939	2018	2.075	4
4.	Tudor Cioara, Ionut Anghel, Ioan Salomie, <b>Marcel Antal</b> , Claudia Pop, Massimo Bertoncini, Diego Arnone, Florin Pop, Exploiting data centres energy flexibility in smart cities: Business scenarios, <i>Information Sciences</i> , 2018, ISSN 0020-0255, <a href="https://doi.org/10.1016/j.ins.2018.07.010">https://doi.org/10.1016/j.ins.2018.07.010</a>	2018	4.305	2
5.	Pop Claudia, Tudor Cioara, <b>Marcel Antal</b> , Ionut Anghel, Ioan Salomie and Massimo Bertoncini. "Blockchain Based Decentralized Management of Demand Response Programs in Smart Energy Grids." <i>Sensors</i> (2018)	2018	2.475	41
6.	<b>Marcel Antal</b> , 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, 2018, <i>Simulation Modelling Practice and Theory</i> , Elsevier, ISSN: 1569-190X	2018	2.092	0

## Capitole Carte

1. V. R. Chifu, I. Salomie, E. Șt. Chifu, C. B. Pop, D. Valea, M. Lupu, **M. Antal**, Hybrid Invasive Weed Optimization Method for Generating Healthy Meals, Springer Cham, 2015, pp 335-351, ISBN 978-3-319-18296-4

## Lucrari Laborator

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, 2018

## Conferinte Internationale

1. Ionut Tamas, Ioan Salomie, **Marcel Antal**, Atomic invariants verification and deadlock detection at compile-time *2018 14th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2018
2. Claudia Pop, Cristian Pop, **Antal Marcel**, Andreea Vesa, Teodor Petrican, Tudor Cioara, Ionut Anghel, Ioan Salomie Decentralizing the Stock Exchange using Blockchain: An Ethereum-based implementation of the Bucharest Stock Exchange, *2018 14th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2018
3. Pinteaa Cristian, Pinteaa Eugen, **Antal Marcel**, Claudia Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, CoolCloudSim: Integrating Cooling System Models in CloudSim *2018 14th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2018
4. Teodor Petrican, Andreea Valeria Vesa, **Marcel Antal**, Claudia Pop, Tudor Cioara, Ionut Anghel, Ioan Salomie, Evaluating Forecasting Techniques for Integrating Household Energy Prosumers into Smart Grids, *2018 14th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2018
5. Claudia Pop, Alexandra Craciun, Carla Knoblaui, **Marcel Antal**, Dorin Moldovan, Tudor Cioara, Ionut Anghel, Ioan 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, 2017, pp. 21-28. doi: 10.1109/ICCP.2017.8116978 [IEEE][SCOPUS]
6. 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, 2017, pp. 205-211. doi: 10.1109/ICCP.2017.8117005 [IEEE][SCOPUS]
7. **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, 2017, pp. 535-541. doi: 10.1109/ICCP.2017.8117059 [IEEE][SCOPUS]
8. **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, 2017, pp. 527-534. doi: 10.1109/ICCP.2017.8117058 [IEEE][SCOPUS]
9. **Marcel Antal**, Tudor Cioara, Ionut Anghel, Claudia Pop, Ioan Salomie, Massimo Bertocini, and Diego Arnone. 2017. 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. DOI: <https://doi.org/10.1145/3077839.3084024> [SCOPUS] [ACM]
  10. **Antal Marcel**, Pinte Cristian, Pinte Eugen, Tudor Cioara, Ionut Anghel, Pop Claudia, Salomie Ioan, Thermal Aware Workload Consolidation in Cloud Data Centers, Proceedings of IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP 2016), Sept 8-10. 2016 Cluj-Napoca, România, pp. 377-384 ISBN 978-1-5090-3899-2 [IEEE][SCOPUS]
  11. Dorin Moldovan, Claudia Pop, **Marcel Antal**, Tudor Cioara, Ionut Anghel, Ioan Salomie, „SWAG: Semantic Web Application Generator – A Library for Using Ontologies as Web Services Proceedings of IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP 2016), Sept 8-10. 2016 Cluj-Napoca, România, pp. 103-110, ISBN 978-1-5090-3899-2 [IEEE][SCOPUS]
  12. Tudor Cioara, Ionut Anghel, Ioan Salomie, **Marcel Antal**, Massimo Bertocini, Diego Arnone, Optimizing the Power Factor of Data Centers Connected to the Smart Grid, Proceeding E2DC '16 Proceedings of the 5th International Workshop on Energy Efficient Data Centres, June 21 - 24, 2016, Waterloo, Ontario, Canada, ISBN: 978-1-4503-4421-0 [SCOPUS] [ACM]
  13. **Marcel Antal**, Claudia Pop, Dan Valea, Tudor Cioara, Ionut Anghel, Ioan Salomie, “Optimizing Data Centers Operation to Provide Ancillary Services On-demand“, Springer Cham, 2016, pp 133-146, ISBN 978-3-319-43177-2 [SCOPUS] [ISI]
  14. Cristina Bianca Pop, Viorica Chifu, Ioan Salomie, Adrian Cozac, **Marcel Antal**, Claudia Pop, Optimizing the Data Center Energy Consumption using a Particle Swarm Optimization-based Approach,“, Springer Cham, 2016, pp 176-189, ISBN 978-3-319-43177-2 [SCOPUS] [ISI]
  15. C. Pop, D. Moldovan, **M. Antal**, D. Valea, T. Cioara, I. Anghel, I. Salomie, M2O: A library for using ontologies in software engineering, in Proceedings - 2015 IEEE 11th International Conference on Intelligent Computer Communication and Processing, ICCP 2015, Sept 3-5 2015 Cluj-Napoca Romania pp. 69-75 ISBN 978-1-4673-8200-7. [IEEE][SCOPUS] [ISI]
  16. V. R. Chifu, I. Salomie, E. Șt. Chifu, C. B. Pop, P. Poruțiu, **M. Antal**, Jigsaw Inspired Meta-Heuristic for Selecting the Optimal Solution in Web Service Composition, Springer Cham, 2015, pp 573-584, ISBN 978-3-319-18296-4 [SCOPUS] [ISI]
  17. V. R. Chifu, C. B. Pop, I. Salomie, E. St. Chifu, V. Rad, **M. Antal**, Hybrid Cuckoo Search-based Algorithms for Business Process Mining, Intelligent Systems, Springer Cham, 2015, pp 487-498, ISBN 978-3-319-11313-5 [SCOPUS] [ISI]
  18. D. Moldovan, **M. Antal**, D. Valea, C. Pop, T. Cioara, I. Anghel, I. Salomie, Tools for mapping ontologies to relational databases: A comparative evaluation, in Proceedings - 2015 IEEE 11th International Conference on Intelligent Computer Communication and Processing, ICCP 2015, Sept 3-5 2015 Cluj-Napoca Romania pp 77-83, ISBN 978-1-4673-8200-7. [IEEE][SCOPUS] [ISI]
  19. Cioara, T.; Anghel, I.; **Antal, M.**; Crisan, S.; Salomie, I., "Data center optimization methodology to maximize the usage of locally produced renewable energy," Sustainable

- Internet and ICT for Sustainability (SustainIT), April 14-15 2015 Madrid, vol., no., pp.1-8, ISBN 978-3-9018-8270-8 [SCOPUS] [DBLP][IEEE][ISI]
20. V.R. Chifu, I. Salomie, E.Șt. Chifu, I. Balla, C.B. Pop, **M. Antal**, Cuckoo Search Algorithm for Clustering Food Offers, Proceedings of IEEE 10th International Conference on Intelligent Computer Communication and Processing (ICCP 2014), Sept 4-6. 2014 Cluj-Napoca, România, pp. 17-22 , ISBN 978-1-4799-6569-4 [IEEE][SCOPUS] [ISI]
  21. Viorica R Chifu, Ioan Salomie, Emil St. Chifu, Adela Negrean, Horatiu Jeflea, **Marcel Antal**, Crab Mating Optimization Algorithm, Proceedings of the 18th International Conference on System Theory, Control and Computing, Oct 17-19 2014 Sinaia, Romania, pp. 353-358, ISBN 978-1-4799-4601-3 [SCOPUS][IEEE]
  22. **M. Antal**, I. Tamas, T. Cioara, I. Anghel, I. Salomie, A Swarm-based algorithm for Optimal Spatial Coverage of an Unknown Region, Proceedings of IEEE International Conference on Intelligent Computer Communication and Processing, Sept 5-7 2013 Cluj-Napoca Romania pp.7 - 13, ISBN 978-1-4799-1494-4 [IEEE][SCOPUS]
  23. Roxana Jurca, Tudor Cioara, Ionut Anghel, Marcel Antal, Claudia Pop, Dorin Moldovan, Activities of Daily Living Classification using Recurrent Neural Networks, RoEduNet Conference 2018.

**Marcel Antal**

## Lista Lucrari Laborator

Antal Marcel

### Tehnici de Programare (anul 2)

1. Lucrarea de laborator 2:  
Java Concurrency  
(<http://coned.utcluj.ro/~marcel99/PT/Tema%202/Java%20Concurrency.pdf>)
2. Lucrarea de laborator 3:  
Layered Application using Relational Databases  
(<http://coned.utcluj.ro/~marcel99/PT/Tema%203/3-Presentation.pdf> )
3. Lucrarea de laborator 5:  
Java Streams  
(<http://coned.utcluj.ro/~marcel99/PT/Tema%205/PT-Laboratory-5-Streams.pdf> )

### Sisteme Distribuite (anul 4)

Indrumator de laborator:

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, 2018

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Semnatura:

Antal Marcel

Avizat Departament:

Sef. Departament

Prof. Dr. Ing. Rodica Potolea

