

## LISTA DE LUCRARI PUBLICATE

### A – Teza de doctorat

„Tehnici de Calcul Autonomic pentru Sisteme Pervasive si Centre de Date Eficiente Energetic”

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### B – Cărți și capitole în cărți

#### **B1. CĂRȚI**

1. **I. Anghel**, T. Cioara - *Ambient Intelligence for Elders Care*, UT Press, 2018, ISBN: 978-606-737-297-7, 85 pagini.
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. 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
4. **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.
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.

#### **B2. CAPITOLE DE CARTE**

1. D. Moldovan, **I. Anghel**, T. Cioara and I. Salomie, Apache Spark for Digitalization, Analysis and Optimization of Discrete Manufacturing Processes, Big Data Platforms and Applications, Springer International Publishing, Pop Florin, Neagu Gabriel (Eds.), 2021, ISSN 1617-7975
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3. 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, 2020, Eds.: Shrivastava Gulshan, Le Dac-Nhuong, Sharma Kavita. Wiley-Scrivener, ISBN: 978-1-119-62116-4
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5. 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.
6. 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.

## **C – Articole în reviste din fluxul științific internațional**

### **C1. Articole în reviste de specialitate de circulație internațională cotate ISI**

1. C. Antal, T. Cioara, M. Antal, V. Mihailescu, D. Mitrea, **I. Anghel**, I. Salomie, G. Raveduto, M. Bertocini, V. Croce, T. Bragatto, F. Carere, F. Bellesini, Blockchain based decentralized local energy flexibility market, Energy Reports, Volume 7, 2021, Pages 5269-5288, ISSN 2352-4847 IF:6.87 Q1 [DOI](#)
2. M. Antal, A. Cristea, V. Pădurean, T. Cioara, **I. Anghel**, M. Antal, I. Salomie, N. Saintherant, Heating Homes with Servers: Workload Scheduling for Heat Reuse in Distributed Data Centers. Sensors 2021, 21, 2879. IF:3.576 Q1 [DOI](#)
3. C. Antal, T. Cioara, M. Antal and **I. Anghel**, Blockchain Platform For COVID-19 Vaccine Supply Management, in IEEE Open Journal of the Computer Society, vol. 2, pp. 164-178, 2021. WOS Emerging Sources Citation Index [DOI](#)
4. T. Cioara, M. Antal, V. T. Mihailescu, C. D. Antal, I. M. Anghel and D. Mitrea, Blockchain-Based Decentralized Virtual Power Plants of Small Prosumers, in IEEE Access, vol. 9, pp. 29490-29504, 2021 IF:3.367 Q2 [DOI](#)
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9. D. Moldovan, **I. Anghel**, T. Cioara, I. Salomie, Adapted Binary Particle Swarm Optimization for Efficient Features Selection in the Case of Imbalanced Sensor Data. *Appl. Sci.* 2020, 10, 1496., IF: 2.679 Q2 [DOI](#)
10. A.V. Vesa, T. Cioara, **I. Anghel**, M. Antal, C. Pop, B. Iancu, I. Salomie, V. Dadarlat, Energy Flexibility Prediction for Data Center Engagement in Demand Response Programs. *Sustainability* 2020, 12, 1417, IF: 3.251 Q2 [DOI](#)
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12. C. Pop, M. Antal, T. Cioara, **I. Anghel**, I. Salomie, M. Bertoncini, A Fog Computing Enabled Virtual Power Plant Model for Delivery of Frequency Restoration Reserve Services. *Sensors* 2019, 19, 4688. IF:3.576 Q1 [DOI](#)
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17. 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:2.592 Q2 [DOI](#)
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23. **I. Anghel**, T. Cioara, I. Salomie, M. Dinsoreanu, A. Rarau - Middleware for Smart Environments Management -*International Journal of Computers Communications & Control*, Vol. 5/2, pp. 148-159, ISSN 1841-9836, 2010, IF:2.293 Q3 [download](#)

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1. 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**]
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. 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**]

## **D – Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate**

### **D1. Articole cotate ISI**

1. L. Todorean, C. Antal, M. Antal, D. Mitrea, T. Cioara, **I. Anghel**, I. Salomie, A Lockable ERC20 Token for Peer to Peer Energy Trading, ICCP2021, [**IEEE**]
2. I. A. Bozdog, D. Todea, M. Antal, C. Antal, T. Cioara, **I. Anghel**, I. Salomie, Human Behavior and Anomaly Detection using Machine Learning and Wearable Sensors, ICCP2021 [**IEEE**]
3. D. Moldovan, **I. Anghel**, T. Cioara and I. Salomie, "Machine Learning in Manufacturing: Processes Classification Using Support Vector Machine and Horse Optimization Algorithm," 2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet), Bucharest, Romania, 2020, pp. 1-6, [**IEEE**]
4. T. Cioara, C. Pop, R. Zanc, **I. Anghel**, M. Antal and I. Salomie, "Smart Grid Management Using Blockchain: Future Scenarios and Challenges," 2020 19th RoEduNet Conference: Networking in Education and Research (RoEduNet), Bucharest, Romania, 2020, pp. 1-5 [**IEEE**]

5. D. Moldovan, **I. Anghel**, T. Cioara and I. Salomie, Particle Swarm Optimization Based Deep Learning Ensemble for Manufacturing Processes, *International Conference on Computer Communication and Processing (ICCP 2020)*, 3 – 5 September 2020, Cluj-Napoca, Romania [IEEE]
6. T. Sărățean, M. Antal, C. Pop, T. Cioara, **I. Anghel** and I. Salomie, A Physiotherapy Coaching System based on Kinect Sensor, *International Conference on Computer Communication and Processing (ICCP 2020)*, 3 – 5 September 2020, Cluj-Napoca, Romania [IEEE]
7. C. Pop, M. Prata, M. Antal, T. Cioara, **I. Anghel** and I. Salomie, An Ethereum-based implementation of English, Dutch and First-price sealed-bid auctions, *International Conference on Computer Communication and Processing (ICCP 2020)*, 3 – 5 September 2020, Cluj-Napoca, Romania [IEEE]
8. I. A. Daniel, C. Pop, **I. Anghel**, M. Antal and T. Cioara, A Blockchain based solution for Managing Transplant Waiting Lists and Medical Records, *International Conference on Computer Communication and Processing (ICCP 2020)*, 3 – 5 September 2020, Cluj-Napoca, Romania [IEEE]
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13. A. V. Vesa, N. Ghitescu, C. Pop, M. Antal, T. Cioara, **I. Anghel**, I. Salomie, A Stacking Multi-Learning Ensemble Model for Predicting Near Real Time Energy Consumption Demand of Residential Buildings, *IEEE ICCP2019*, September 2019, Cluj-Napoca, Romania
14. 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
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- implementation of the Bucharest Stock Exchange, *14th International Conference on Computer Communication and Processing (ICCP 2018)*
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  20. R. Jurca, T. Cioara, **I. Anghel**, M. Antal, C. Pop, D. Moldovan, Activities of Daily Living Classification using Recurrent Neural Networks, *RoEduNet Conference 2018*.
  21. D. Moldovan, V. Chifu, C. Pop, T. Cioara, **I. Anghel**, I. Salomie, Chicken Swarm Optimization and Deep Learning for Manufacturing Processes, *RoEduNet Conference 2018*.
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32. 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.
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Semnătura

