

LISTA DE LUCRĂRI

A. Lista celor mai semnificative lucrări

1. *Advancements in non-invasive microwave brain stimulation Comment on "Influences of Microwave Antenna on brain stimulation" by Pereira et al.*, Hemanth, DJ; **Popirlan, CI** și Danciulescu, RC, Mar 2024, PHYSICS OF LIFE REVIEWS 48, 203-204, 2024;
2. *Predicting the unemployment rate and energy poverty levels in selected European Union countries using an ARIMA-ARNN model*, **Claudiu-Ionuț Popîrlan**, Irina-Valentina Tudor, Cristina Popirlan, PeerJ Computer Science 9:e1464, <https://doi.org/10.7717/peerj-cs.1464>, 2023;
3. *Hybrid Quantum-Classical Networks characteristics and optimization for Error Correction and Noise Mitigation*, **C.-I. Popîrlan**, G.-C. Buzatu, 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), Craiova, Romania, 2023, 1-7, doi: 10.1109/RoEduNet60162.2023.10274940;
4. *Influence of Certain Social Aspects on Most Likely Internet Usage Scenarios*, **Popîrlan Claudiu-Ionuț**; Tudor Irina-Valentina; Dinu Constantin-Cristian; Stoian Gabriel; Popirlan Cristina; Danciulescu Daniela, SUSTAINABILITY, Volume 14, Issue 12, Article Number 7129, 2022;
5. *Hybrid Model for Unemployment Impact on Social Life*, **Popîrlan Claudiu-Ionuț**; Tudor Irina-Valentina; Dinu Constantin-Cristian; Stoian Gabriel; Popirlan Cristina; Danciulescu Daniela, MATHEMATICS, Volume 9, Issue 18, Article Number 2278, 2021;
6. *A proposed multi-agent based platform for monitoring and control of Active Power Distribution Systems*, I.-A. Cojoacă, C. Bulac și **C.-I. Popîrlan**, 3rd Global Power, Energy and Communication Conference (GPECOM), Antalya, Turkey, 2021, 214-219, doi: 10.1109/GPECOM52585.2021.9587616;
7. *Smart Storage and Grid Services Based on Removable Modular Batteries for EV*, Leonardo-Geo MĂNESCU, Denisa RUȘINARU, Cosmin Buzatu, Lucian Mandache, Anca BĂNDOI, Catalina Sitnikov, **Claudiu POPÎRLAN**, Carmen Maria NEGRILĂ, Claudiu George Bocean, 2021 International Conference on Applied and Theoretical

Electricity (ICATE), Craiova, Romania, 2021, 1-6, doi: 10.1109/ICATE49685.2021.9465013;

8. *Extended Capabilities of the Power Quality Management System of the Power Distribution Grid for Data Exchange*, Denisa Rusinaru, **Claudiu Popîrlan**, Gabriel Stoian, Cosmin Buzatu, Andrei Negoita, Leonardo Geo Manescu, Adrian Cojoaca and Mihai Mircea, MATEC Web Conf. Volume 210, 2018, 22nd International Conference on Circuits, Systems, Communications and Computers (CSCC 2018), Article Number 02045, Number of pages 7, <https://doi.org/10.1051/matecconf/201821002045>;
9. *Complex Software System for Data Management and Analysis of Power Distribution Grids*, Leonardo Geo Manescu, Denisa Rusinaru, **Claudiu-Ionuț Popîrlan**, Gabriel Stoian, Marian Ciontu, Gabriel Cosmin Buzatu, Miron Alba, Fourth International Conference on Mathematics and Computers in Sciences and in Industry (MCSI), 2017, 51-56, 10.1109/MCSI.2017.18;
10. *Powering Knowledge Transfer at INCESA - BRIDGE projects*, Denisa Rusinaru, Leonardo-Geo Manescu, Marian Ciontu, Paul-Mihai Mircea, Gabriel-Cosmin Buzatu, Gabriel Stoian, **Claudiu Popîrlan**, Titela Vilceanu, Andrei Negoita, Miron Alba, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and PowerElectronics (ACEMP), Transilvania Univ Brasov, Brasov, ROMANIA, MAY25-27, 2017, 190-195;

B. Teza de doctorat

1. *Modelarea Agenților Mobili și utilizarea acestora în Reprezentarea și Procesarea Cunoștințelor*, Doctorand: **Claudiu-Ionuț Popîrlan**, Conducător de doctorat: Prof. Dr. Nicolae Țăndăreanu, Departamentul de Informatică, Facultatea de Matematică și Informatică, Universitatea din Pitești, Februarie 2009.

C. Cărți

1. *An Intelligent Agent-Based Approach for COVID-19 Patient Distribution Management*, **Claudiu-Ionuț Popîrlan**, Adriana Burlea Schiopoiu, Cristina Popirlan, Ahmed A. Elngar, book chapter, chapter 11, Handbook of Computational Sciences: A

Multi and Interdisciplinary Approach, 2023,
<https://doi.org/10.1002/9781119763468.ch11>;

2. *Intelligent Software Agents for Data Analysis in Knowledge-based Systems*, Chapter for the book "Intelligent Decision Support Systems for Managerial Decion Making", ISBN 978-606-92386-5-3, ASERS Publishing 2011, 25-48, Laura Stefanescu, **Claudiu-Ionuț Popîrlan**;
3. *Web Technologies for Modelling and Visualization in Mechanical Engineering*, Chapter for the book "Modelling, Simulation and Optimization", IN-TECH Online, Vienna, Austria, ISBN 978-953-7619-36-7, 2010, Mihai Dupac, **Claudiu-Ionuț Popîrlan**;
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6. *Tehnologii Java pentru dezvoltarea aplicațiilor - Note de curs*, Seria Computer Science, Editura Universitaria, Craiova, 214 pagini, ISBN 978-606-510-724-3, 2009, Gabriel Stoian, **Claudiu-Ionuț Popîrlan**;
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9. *Modelarea Agenților Mobili și utilizarea acestora în Reprezentarea și Procesarea Cunoștințelor*, Subseries of Research Notes in Computer Science, Editura Universitaria, Craiova, 203 pagini, ISBN: 978-606-510-616-1, 2009, **Claudiu-Ionuț Popîrlan**.

D. Articole publicate în reviste din fluxul științific internațional principal

1. *Advancements in non-invasive microwave brain stimulation Comment on "Influences of Microwave Antenna on brain stimulation" by Pereira et al.*, Hemanth, DJ;

- Popîrlan, CI** și Danciulescu, RC, Mar 2024, PHYSICS OF LIFE REVIEWS 48, 203-204;
2. *Predicting the unemployment rate and energy poverty levels in selected European Union countries using an ARIMA-ARNN model*, **Claudiu Ionuț Popîrlan**, Irina-Valentina Tudor, Cristina Popirlan, PeerJ Computer Science 9:e1464, 2023 <https://doi.org/10.7717/peerj-cs.1464>;
 3. *Influence of Certain Social Aspects on Most Likely Internet Usage Scenarios*, **Popîrlan Claudiu-Ionuț**; Tudor Irina-Valentina; Dinu Constantin-Cristian; Stoian Gabriel; Popirlan Cristina; Danciulescu Daniela, SUSTAINABILITY, Volume 14, Issue 12, Article Number 7129, 2022;
 4. *Hybrid Model for Unemployment Impact on Social Life*, **Popîrlan Claudiu-Ionuț**; Tudor Irina-Valentina; Dinu Constantin-Cristian; Stoian Gabriel; Popirlan Cristina; Danciulescu Daniela, MATHEMATICS, Volume 9, Issue 18, Article Number 2278, 2021;
 5. *Collaborative software agents based on JADE for distributed data processing*, **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series, Volume 38(3), 2011, 46-55;
 6. *Authentication model based on Multi-Agent System*, Nicolae Constantinescu și **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series, Volume 38(2), 2011, 59-68;
 7. *Factorization of an inheritance knowledge base (II)*, Nicolae Tandareanu și **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series Volume 37(4), 2010, 1-8;
 8. *Using Mobile Agents for Handoff Tuning in Mobile WiMAX Networks*, Gabriel Stoian, **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series Volume 37(3), 2010, 22-28;
 9. *Factorization of an inheritance knowledge base (I)*, Nicolae Tandareanu și **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series, Volume 37(2), 2010, 62-74;
 10. *A Proposal for an Enhanced Mobile Agent Architecture (EMA)*, Gabriel Stoian și **Claudiu Ionuț Popîrlan**, Annals of the University of Craiova, Mathematics and Computer Science Series, Volume 37(1), 2010, 71-79;

11. *An optimal path algorithm for autonomous searching robots*, **Claudiu Popîrlan**, Mihai Dupac, 2009, Annals of the University of Craiova-Mathematics and Computer Science Series, Volume 36, Issue 1, 37-48;
12. *A Mobile Agents Architecture for Robots Control*, **Claudiu-Ionuț Popîrlan**, 2009, Annals of the University of Craiova-Mathematics and Computer Science Series, Volume 36, Issue 2, 109-117;
13. *A Mobile Agent Virtual Reality Modeling of Searching Robots*, **Claudiu Popîrlan**, Mihai Dupac, 2008, Annals of the University of Craiova-Mathematics and Computer Science Series, Volume 35, 139-148;
14. *An Extension of Inheritance Knowledge Bases and Computational Properties of their Answer Functions*, **Claudiu Popîrlan**, Nicolae Tandareanu, 2008, Annals of the University of Craiova-Mathematics and Computer Science Series, Volume 35, 149-170;
15. *A Mobile Agents approach for 3D elastic medium modeling and visualization*, **Claudiu Popîrlan**, Mihai Dupac, 2007, Annals of the University of Craiova-Mathematics and Computer Science Series, Volume 34, 115-123;
16. *Tennis Tournaments from the Perspective of Sport Tourism*, Banciu, Alexandru-Nicolae; **Popîrlan, Claudiu-Ionuț**; Cosma, Germina. Journal of Environmental Management & Tourism; Craiova Vol. 14, Issue 2, (Spring 2023): 435-441. DOI:10.14505/jemt.14.2(66).13;
17. *Managing ITF Juniors Tennis Tournaments in the Context of Tourism*, Banciu, Alexandru-Nicolae; **Popîrlan, Claudiu-Ionuț**; Cosma, Germina. Journal of Environmental Management & Tourism; Craiova Vol. 12, Iss. 6(54), (Fall 2021): 1687-1693. DOI:10.14505/jemt.v12.6(54).24;
18. *Developing a Java Application for Distributive Computations using Semantic Schemas*, Journal of Applied Economic Sciences, Volume XI Issue 2(40), Spring 2016, ISSN 2393–5162, 319–328, **Claudiu-Ionuț Popîrlan**, Sorin Dinca;
19. *Aspects Regarding the Impact of Electrical Vehicles' Charging on Power Quality*, Denisa Rusinaru, Gabriel Cosmin Buzatu, Leonardo Geo Manescu și **Claudiu Popîrlan**, Annals of the University of Craiova, Electrical Engineering series, No. 44, Issue 1, 2020;
20. *Cloud Computing Economic Impact Modelling Using General Equilibrium Models*, Cristina Popîrlan, **Claudiu-Ionuț Popîrlan**, Gabriel Stoian, Journal of Advanced

Research in Law and Economics, Volume XI, Issue 3(49), 959-966, 2020, <https://www.scopus.com/sourceid/21100286923>;

21. *Using Intelligent Agents in Online Betting Management Systems*, **Popîrlan, Claudiu Ionuț**; Gavrilă, Laura; Popîrlan, Cristina. Journal of Advanced Research in Management; Craiova Vol. 8, Iss. 2(16), (Winter 2017): 126-131. DOI:10.14505/jarm.v8.2(16).04;
22. *Developing a System of Knowledge Bases Using Semantic Schemas in Java and CLIPS*, Sorin Dincă, **Claudiu Ionuț Popîrlan**, 2014, Annals Of Spiru Haret University: Mathematics-Informatics Series, Volume 10, Issue 2, 5-14;
23. *Knowledge Bases Management using Mobile Agents Architecture*, **Claudiu Ionuț Popîrlan**, 2009, Journal of Knowledge, Communications and Computing Technologies, Volume 1, Issue 1 59-69.

E. Articole apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. *A proposed multi-agent based platform for monitoring and control of Active Power Distribution Systems*, I.-A. Cojoacă, C. Bulac și **C.-I. Popîrlan**, 3rd Global Power, Energy and Communication Conference (GPECOM), Antalya, Turkey, 2021, 214-219, doi: 10.1109/GPECOM52585.2021.9587616;
2. C. Popîrlan and C. -I. Popîrlan, "New Techniques in Numerical Analysis for Artificial Intelligence," 2023 25th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Nancy, France, 2023, pp. 76-81, doi: 10.1109/SYNASC61333.2023.00017.
3. *Smart Storage and Grid Services Based on Removable Modular Batteries for EV*, Leonardo-Geo MĂNESCU, Denisa RUȘINARU, Cosmin Buzatu, Lucian Mandache, Anca BĂNDOI, Catalina Sitnikov, **Claudiu-Ionuț POPÎRLAN**, Carmen Maria NEGRILĂ, Claudiu George Bocean, 2021 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2021, 1-6, doi: 10.1109/ICATE49685.2021.9465013;
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5. *Complex Software System for Data Management and Analysis of Power Distribution Grids*, Leonardo Geo Manescu, Denisa Rusinaru, **Claudiu-Ionuț Popîrlan**, Gabriel Stoian, Marian Ciontu, Gabriel Cosmin Buzatu, Miron Alba, 2017 Fourth International Conference on Mathematics and Computers in Sciences and in Industry (MCSI), 2017, 51-56, 10.1109/MCSI.2017.18;
6. *Powering Knowledge Transfer at INCESA - BRIDGE projects*, Denisa Rusinaru, Leonardo-Geo Manescu, Marian Ciontu, Paul-Mihai Mircea, Gabriel-Cosmin Buzatu, Gabriel Stoian, **Claudiu Popîrlan**, Titela Vilceanu, Andrei Negoita, Miron Alba, International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference on Electrical Machines and PowerElectronics (ACEMP), Transilvania Univ Brasov, Brasov, ROMANIA, MAY25-27, 2017, 190-195;
7. *Developing A Multi-Agent System in JADE for Information Management in Educational Competence Domains*, Adrian Victor Sandita, **Claudiu Ionuț Popîrlan**, Procedia Economics and Finance, Volume 23, 2015, 478-486, 2nd Global Conference on Business, Economics and Management and Tourism (BEMTUR);
8. *A Multi-agent Approach for Adaptive Virtual Organization Using JADE*, **Popîrlan Claudiu Ionuț**; Stefanescu Laura, 2nd International Conference on Adaptive and Intelligent Systems, Klagenfurt, AUSTRIA, SEP 06-08, 2011, Lecture Notes in Artificial Intelligence (LNAI), Volume 6943, 344-355;
9. *Mamdani Fuzzy Logic Controller with Mobile Agents for Matching*, Ion Iancu, **Claudiu-Ionuț Popîrlan**, Recent Advances In Neural Networks, Fuzzy Systems & Evolutionary Computing, 117-122, 2010;
10. *A mobile agents approach for 2D geometrical figures recognition*, **Claudiu-Ionuț Popîrlan**, Cristina Popirlan, 2009, 2nd IEEE International Conference on Computer Science and Information Technology, 316-320;
11. *Mobile Agents communication for knowledge representation*, **CI Popîrlan**, Cristina Popirlan, 2007, 11-th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2007), Pages 8-11, Jointly with the 13th International Conference on Information Systems Analysis and Synthesis, ISAS 2007, 1, 92-96;
12. *Assessment of GSM HF-Radiation Impact Levels within the Residential Area of Craiova City*, Procedia Environmental Sciences, Elsevier, Volume 32, 2016, 177-183,

doi:10.1016/j.proenv.2016.03.022, Ioan Eustatiu Marinescu, **Claudiu-Ionuț Popîrlan**;

13. *Investigating User Characteristics and Behaviors on Social Media as Prequel for Fake News Detection*, **Popîrlan Claudiu-Ionuț**, Tudorache Cristina-Mihaela, Tudor Irina-Valentina, Dinu Constantin-Cristian, Colhon Mihaela, Stoian Gabriel, Daniela Dănciulescu, Popîrlan Cristina, 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), Craiova, Romania, 2023, doi: 10.1109/RoEduNet60162.2023.10274926;
14. *Hybrid Quantum-Classical Networks characteristics and optimization for Error Correction and Noise Mitigation*, **C.-I. Popîrlan**, G.-C. Buzatu, 2023 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), Craiova, Romania, 2023, 1-7, doi: 10.1109/RoEduNet60162.2023.10274940;
15. *A solution based on intelligent software agents to improve the data searching in the contact centers*, **Claudiu-Ionuț Popîrlan**, 2011 6th IEEE Joint International Information Technology and Artificial Intelligence Conference, Chongqing, China, 2011, 1-5, doi: 10.1109/ITAIC.2011.6030262;
16. *A Multi-Agent Solution for Contact Centers Improvement*, **Popîrlan, Claudiu Ionuț**, Stefanescu, Costinel Andy, Annals of DAAAM & Proceedings. Jan2011, 1183-1184;
17. *A Multi-Agent Approach for Distributed Knowledge Processing in Contact Centers*, **Claudiu Ionuț Popîrlan**, LATEST TRENDS on COMPUTERS (Volume I), BT– Proceedings of The 14th WSEAS International Conference on Computers (Part of the 14th WSEAS CSCC Multiconference), 214-219, 2010;
18. *Knowledge Processing in Contact Centers using a Multi-Agent Architecture*, **Claudiu Ionuț Popîrlan**, Wseas Transactions on Computers, Issue 11, Volume 9, November 2010;
19. *A Mobile Agents Approach for Knowledge Bases Processing*, N. Tandareanu și **C.I. Popîrlan**, 2009, Proceedings of the Twelfth IASTED International Conference on Intelligent Systems and Control (ISC 2009), 27-32;
20. *A Mobile Agents Approach for Searching Robots Virtual Reality Modeling and Simulation*, **C. Popîrlan** și M. Dupac, Proceedings of the 20th IASTED International Conference, Modelling and Simulation - 2009, Volume 670, Issue 111, 301-307;
21. *A Web-Visualization Approach for 3D Elastic Medium Modeling and Simulation*, **C. Popîrlan** și M. Dupac, Proceeding (620) Modelling and Simulation - 2008, Proceedings of the 19th IASTED International, Volume 620, Issue 148, 322;

22. *The Convex Feasibility Problem-Projection Algorithm*, Cristina Popirlan, **Claudiu Popîrlan**, Proceedings of the 2nd IASTED International Symposium on Modern Nonlinear Theory, MNT 2008, Volume 645, 368-373;
23. *Application Development to Convert Heterogeneous Information into Pqdif (Power Quality Data Interchange Format)*, **Claudiu Popîrlan**, Gabriel Stoian, Leonardo Geo Manescu, Denisa Rusinaru, Marian Ciontu, Gabriel Cosmin Buzatu, Miron Alba, Adrian Cojoaca, International Journal of Computer Science & Information Technology (IJCSIT) Vol 10, No 4, August 2018. DOI: 10.5121/ijcsit.2018.10401;
24. *A Web-Based Solution for Power Quality Data Management*, **Claudiu Popîrlan**, Gabriel Stoian, Leonardo Geo Manescu, Denisa Rusinaru, Marian Ciontu, Gabriel Cosmin Buzatu, Miron Alba, Adrian Cojoaca, NeCoM, SEAS, SP, CMCA - 2018 pp. 85–95, 2018. © CS & IT CSCP 2018, Computer Science & Information Technology (CS & IT), 10th International Conference on Networks & Communications, DOI: 10.5121/csit.2018.80907;
25. *Mobile Agents System for Knowledge Bases Processing*, **Claudiu Popîrlan**, Madalin Florescu, 2008, The 8th International Conference on Artificial Intelligence and Digital Communications, Romania;
26. *A Web-based Approach for 3D Mechanism Components Modeling and Visualization*, **C. Popîrlan** și M. Dupac, 2008, Proceedings of the 17th IASTED international conference on applied simulation and modelling, paper, Issue 609-080, 123-129;
27. *Asynchronous iterative algorithms for solving nonlinear problems*, Cristina Popirlan și **Claudiu-Ionuț Popîrlan**, International Conference of Applied Mathematics, Baia Mare, 2006.

F. Alte lucrări și contribuții științifice

1. *Algorithms for Mobile Agents in Network using Tracy (Mobile Agent Toolkit)*, **Claudiu Popîrlan**, Cristina Popirlan, 2006, Research Notes in Artificial Intelligence and Digital Communications, Volume 106, 31-38;
2. *Multi-Agent Approach for Data Analysis in a Knowledge-based System for Contact Centers*, **Claudiu Ionuț Popîrlan**, Andy Ștefănescu and Laura Ștefănescu, World Academy of Science, Engineering and Technology 59, 2011, 1126-1131;

3. *Using Mobile Agents in User Interfaces Functionality*, Cristina Popîrlan, **Claudiu Ionuț Popîrlan**, 2006, Research Notes in Artificial Intelligence and Digital Communications, Volume 106, 62-68.

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