

LISTA DE LUCRĂRI

Conferentiar dr. ing. POPESCU Cristina

(A) Teza(-ele) de doctorat,

A1 Popescu, C., *Conducerea neuro-fuzzy a roboților mobili*, Universitatea Petrol-Gaze din Ploiești, Ploiești, 2008

(B) Cărți

B2. Cărți de specialitate publicate în edituri naționale, recunoscute de CNCIS

- 2.1. Popa C., **Popescu C.**, *Metode Numerice. Aplicații Python și C++*, Editura Universitatii Petrol-Gaze din Ploiesti, 2024 (228 pagini)
- 2.2. **Popescu C.**, *Conducerea automata a proceselor in foraj, extractie si tranport. Notiuni teoretice si aplicatii*, Editura Universitatii Petrol-Gaze din Ploiesti, 2023 (126 pagini)
- 2.3. **Popescu C.**, *Automatizari si Telecomunicatii. Notiuni teoretice si Aplicatii*, Editura Universitatii Petrol-Gaze din Ploiesti, 2022 (114 pagini)
- 2.4. Patrascioiu C., **Popescu C.**, *Calcul si Metode Numerice*, Editura Universitatii Petrol-Gaze din Ploiesti, 2017 (135 pagini)
- 2.5. **Popescu, C.**, *Conducerea neuro-fuzzy a robotilor mobili*, Editura UPG, Ploiești, **2015**, ISBN 978-973-719-611-8 (152 pagini)
- 2.6. Moise, A., **Popescu, C.**, *Sisteme de conducere a roboților. Structuri de bază*, Editura UPG Ploiești, **2015**, ISBN 978-973-719-628-6 (254 pagini)
- 2.7. **Popescu C.**– *Calcul și Metode Numerice. Lucrări practice de laborator*, Editura Universității Petrol-Gaze din Ploiești, 2014, ISBN 978-973-719-567-8
- 2.8. Moise A., **Popescu C.**, Georgescu A., *Sisteme de Conducere a Roboților – Îndrumar de laborator*, Editura Universității Petrol-Gaze din Ploiești, 2006, ISBN (13)978-973-719-143-4.
- 2.9. **Popescu C.**, Popa C., *Introducere în Știința Sistemelor și a Calculatoarelor – Îndrumar de laborator*, Editura Universitatii Petrol-Gaze din Ploiesti, 2006, ISBN (10)973-719-128-5, ISBN (13)978-973-719-128-1.
- 2.10. Bucur G., **Popescu C.**, *Automatizari Industriale – Îndrumar de laborator*, Editura Universitatii Petrol-Gaze din Ploiesti, 2006, ISBN (10)973-719-147-1, ISBN (13)978-973-719-147-2.
- 2.11. **Bucur, G.**, Popescu, C., *Roboți și linii flexibile de fabricație 2*, Editura UPG Ploiești, 2006, ISBN (10) 973-719-146-3, ISBN (13) 978-973-719-146-5.
- 2.12. **Popescu C.**, Andrei M., Vlăsceanu C., Marinoiu V., *Introducere în cibernetica. Îndrumar de laborator – Întrebări și Exerciții*, Universitatea Petrol-Gaze din Ploiești, 2001

(C) Articole

C.1 Articole publicate în reviste cotate ISI sau in volumele unor manifestari indexate ISI proceedings

- ISI 1.** Bucur, G., Moise, A., **Popescu, C.**, *Using Ultrasonic Sensors to Develop a Wireless Level Control in Reservoirs with Liquid Chemical Products*, **Revista de chimie**, Vol 70, Nr. 2/2019, pp. 365-372
http://www.revistadechimie.ro/http://apps.webofknowledge.com/Search.do?product=WOS&SID=F43GP1HBpOSZBhwSoVi&search_mode=GeneralSearch&prID=fc173e83-4bd4-47d8-8bcf-3ee0a34adb82
- ISI 2.** Marciu, S., Bucur, G., Moise, A., Orhei, D., **Popescu, C.**, *Automatic positioning system for photovoltaic panels*, **ECAI 2018 - International Conference – 10th Edition** Electronics, Computers and Artificial Intelligence 28 June -30 June, 2018, Iasi, ROMÂNIA
- ISI 3.** Moise A., Bucur G., **Popescu, C.**, *Automatic System for Text to Braille Conversion*, **ECAI 2017 – International Conference – 9th Edition** Electronics, Computers and Artificial Intelligence, 29 June -01 July, 2017, Targoviste, ROMÂNIA
- ISI 4.** Cangea, O., Bucur, G., **Popescu, C.**, Moise, A.G., Vlas, D., *Simulation of High Quality Fish Oil Production Monitoring and Control Winterization Process*, **Revista de Chimie**, Nr. 5/2016, pp.943-947 (factor de impact 0,956)
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=S1PyfQYpgESljwc3MIo&page=1&doc=1
- ISI 5.** **Popescu, C.**, Bucur, G., Moise, A.G., Cangea, O., *Modern Procedure for Crude Oil Temperature Control with Programmable Logic Controller*, **Revista de Chimie**, Nr. 4/2016, pp. 785-790 (factor de impact 0,956)
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=S1PyfQYpgESljwc3MIo&page=1&doc=3
- ISI 6.** Bucur, L., Bucur, G., Moise, A.G., **Popescu, C.**, *Finite Element Method Applied to Mathematical Modelling of the Hydrogen Diffusion Process in Metals*, **Revista de chimie**, Nr. 1/2016, pp. 87-91 (factor de impact 0,956)
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=X1erNBjLwzF93yLFrsX&page=1&doc=6
- ISI 7.** Bucur, G., Moise, A.G., **Popescu, C.**, *Simulation of Gas Dehydration Plants Safe Operation in Chemical Industry*, **Revista de chimie**, Nr. 11/2015, pp. 1852-1856 (factor de impact 0,956)
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=S1PyfQYpgESljwc3MIo&page=1&doc=9
- ISI 8.** Bucur G., Moise A., Cangea O., **Popescu C.**, *Designing a Feedforward Neural Network for Welding Control in Oil and Gas Industry Equipment*, 15th International multidisciplinary Scientific Geoconference SGEM 2015, Vol. 4 – Informatics, Geoinformatics and Remote sensing, 16-25 iunie 2015, Albena, Bulgaria, pp. 93-99 (factor de impact 0,25)
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=2&doc=15
<http://www.sgem.org/sgemlib/spip.php?article5599>
- ISI 9.** Cangea O., Moise A., Bucur G., **Popescu C.**, *Intelligent Transportation Systems. Case study*, 15th International multidisciplinary Scientific Geoconference SGEM 2015, 16-25 iunie 2015, Albena, Bulgaria, vol. 4, p.167-174 (factor de impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=2&doc=16

<http://www.sgem.org/sgemlib/spip.php?article5608>

- ISI 10.** Popescu C., Cangea O., Bucur G., Moise A., *The Utility of Neuro-Fuzzy Hybrid Systems in Control*, 15th International multidisciplinary Scientific Geoconference SGEM 2015, 16-25 iunie 2015, Albena, Bulgaria, vol. 4, p.383-390 (factor de impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=2&doc=17

<http://www.sgem.org/sgemlib/spip.php?article5634>

- ISI 11.** Popescu C., Bucur G., Popa C., *Controlling a Vehicle air-cushion using Radio Waves with Application in Water Transport*, 14th International multidisciplinary Scientific Geoconference SGEM 2014, Vol. II – Nano, Bio, and Green – Technologies for a Sustainable Future, 17-26 iunie 2014, Bulgaria, pp. 495-502 (factor de impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=3&doc=26

<http://www.sgem.org/sgemlib/spip.php?article5182>

- ISI 12.** Cangea, O., Moise, A., Popescu, C., *DNA Encryption for data transmission and storage security in industrial environments*, 14th International multidisciplinary Scientific Geoconference SGEM 2014, Vol. I, Bulgaria, pp. 143-150 (factor de impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=3&doc=30

<http://www.sgem.org/sgemlib/spip.php?article4016>

- ISI 13.** Bucur G., Moise A., Popescu C., *Programmable System for Pumping Units Control in Petroleum Extraction*, 14th International multidisciplinary Scientific Geoconference SGEM 2014, Vol. III – Informatics, Geoinformatics and Remote sensing, 17-26 iunie 2014, Albena, Bulgaria, pp. 263 – 268. (factor de impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=P1crgYJe4zOzuYcSFpc&page=4&doc=31

<http://www.sgem.org/sgemlib/spip.php?article4231>

- ISI 14.** Popescu C., Paraschiv N., Cangea O., *Neuro-fuzzy controller for mobile robot navigation with avoiding obstacles and reaching target behaviors*, The 20th International DAAAM Symposium, „Intelligent Manufacturing & Automation: Focus on Theory, Practice and Education, 25-28th November, 2009, Vienna, Austria.(factor impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=MarkedList&qid=2&SID=P2gRuACxeJNsvBNxCQ8&page=1&doc=1&colName=WOS

- ISI 15.** Popescu,C; Bucur, G. & Popescu, C. (2008). *Neuro-Fuzzy Control for Khepera III Mobile Robot*, **ISI Proceedings** of the 19th International DAAAM Symposium, Katalinic, B. (Ed.), pp. 1117-1118, ISBN 978-3-901509-68-1, Trnava, Slovakia, October 2008, Published by DAAAM International, Vienna (ISI Proceedings).(factor impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=7&SID=Y1GakwPsZCyPMrNNmPn&page=1&doc=3

- ISI 16.** Bucur, G.; Popescu, C. & **Popescu, C.** (2008). *Neural Network Control for Wig Welding Processes*, **ISI Proceedings** of the 19th International DAAAM Symposium, Katalinic, B. (Ed.), pp. 84-85, ISBN 978-3-901509-68-1, Trnava, Slovakia, October **2008**, Published by DAAAM International, Vienna (factor impact 0,25)

http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=MarkedList&qid=9&SID=Y1GakwPsZCyPMrNNmPn&page=1&doc=2&colName=WOS

C.2 Articole în reviste indexate în alte baze de date internaționale de referință pentru domeniu, care fac un proces de selecție a revistelor pe baza unor criterii de performanță

- BDI 1.** Cojocaru B., **Popescu C.**, Bucur G., Gocan E., *Pipe Sorting System – From Design to Implementation*, Romanian Journal of Petroleum&Gas Technology, Vol. VI (LXXVII), No. 2/2025
- BDI 2.** Gocan E., Bucur G., **Popescu C.**, *End-to-End Secure Wireless Sensor Network Using PKI Infrastructure and Raspberry PI PICO W*, Romanian Journal of Petroleum&Gas Technology, Vol. VI (LXXVII), No. 1/2025
- BDI 3.** Pancu C., **Popescu C.**, *Automatic System for Advanced Speed Control of the Drilling Hoe*, Romanian Journal of Petroleum&Gas Technology, Vol. IV (LXXV), No. 2/2023
- BDI 4.** **C. Popescu**, A. Olteanu, *Automation system of a maneuvering operation within a drilling installation*, Romanian Journal of Petroleum&Gas Technology, Vol. III (LXXIV), No. 2/2022
- BDI 5.** A.C. Stan, M. Oprea, A. Moise, **C. Popescu**, *Environmental SCADA system using mobile robots*, Conference proceedings, **20st SGEM GeoConference** (4.1), 407-414, 2020
- BDI 6.** Vacarus, T.D., **Popescu, C.**, Moise, A., Bucur, G., *Electromyography and Applications Based on the Interpretation of the Electrical Activity Associated with the Depolarization-Repolarization Cycle of the Muscle Fiber Membrane*, Revista de Chimie, Vol. 71, Nr. 9/2020, pp. 325-336
- BDI 7.** Moise A., Bucur G, **Popescu C.**, *Implementing a PLC based temperature control system for a drying ceramic products industrial process*, 18th International Multidisciplinary Scientific GeoConference, SGEM 2018, Vol. 18, Informatics, Geoinformatics and Remote Sensing, Issue 2.1, pp. 461-468
- BDI 8.** Moise A., Bucur G., **Popescu, C.**, *Design, Implementation and Simulation of an On-Board Car Parking Automatic System*, 17th International Multidisciplinary Scientific GeoConference, SGEM 2017, Vol. 17, Informatics, Geoinformatics and Remote Sensing, Issue 21, pp. 247-254
- BDI 9.** **Popescu, C.**, Bucur, G., Moise, A., *Issues Concerning the Design of a Fiber-Optic Transmission System*, BULETINUL Universitatii de Petrol-Gaze din Ploiesti, Vol. LXIX, No. 1/2017, pp.119-124
- BDI 10.** Bucur, G., Moise, A., **Popescu, C.**, *Design and Implementation of a Rotation Differential Capacitive Sensor*, BULETINUL Universitatii de Petrol-Gaze din Ploiesti, Vol. LXIX, No. 1/2017, pp.37-42
- BDI 11.** **Cristina Popescu**, *An overview on air cushion vehicles*, Bulletin of Petroleum-Gas University of Ploiesti, vol. LXVI, no. 3/2014, ISSN 2247-8574, ISSN-L 1224-8495, pg.23-28.

<http://pdc-connection.ebscohost.com/c/articles/99674137/overview-air-cushion-vehicles>

- BDI 12.** Gabriel Radulescu, **Cristina Popescu**, *About barcode technology. Case study: Computerization of a library*, Bulletin of Petroleum-Gas University of Ploiesti, vol. LXVI, no. 3/2014, ISSN 2247-8574, ISSN-L 1224-8495, pg.7-14.
http://en.ustc.findplus.cn/n_index_findplus_en.php?h=articles&db=a9h&an=99674135
- BDI 13.** **Popescu C.**, *An Overview on Fuzzy Control for Autonomous Systems*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, vol. LXV, No.2, pg. 41-49, Ploiesti, 2013.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2150&language=2&pageType=T>
- BDI 14.** **Popescu C.**, *Radar Simulator Section*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, vol. LXV, No.3, pg.37-43, Ploiesti, 2013.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=2124&language=2&pageType=T>
- BDI 15.** **Popescu C.**, Paraschiv N., Cangea O., *Comparision between PID and fuzzy controllers used in mobile robot control*, Annals of DAAAM for 2011&Proceedings of the 22st International DAAAM Symposium „Intelligent manufacturing & Automation: Power of Knowledge and Creativity, 23-26 Nov. 2011, Vienna, Austria, ISSN 17269679, ISBN 978-390150983-4, pp.223-224.
http://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2011/0223_Popescu.pdf
- BDI 16.** Cangea O., Paraschiv N., **Popescu C.**, *Designing a Control Structure for Discrete Event Systems Described by Petri Nets*, Annals of DAAAM for 2010&Proceedings of the 21st International DAAAM Symposium „Intelligent manufacturing & Automation: Focus on Interdisciplinary Solutions”, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, pp.679-680, Publisher DAAAM International, Vienna, 2010.
<http://connection.ebscohost.com/c/articles/55674797/designing-control-structure-discrete-event-systems-described-by-petri-nets>
- BDI 17.** **Popescu C.**, *Neuro-Fuzzy Controller for Mobile Robot*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, Vol. LXII, No.1/2010.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=1550&language=2&pageType=T>
- BDI 18.** Cangea O., **Popescu C.**, *Encryption Algorithms Design using Programmable Logic Circuits*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, Vol. LXI, No. 3/2009, 6th International SPC Symposium on Process Control 2009, Ploiești 2009, ISSN 1224-8495.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=1190&language=2&pageType=T>

- BDI 19.** Popescu C., Cangea O., *Implementation of Target-Reaching and Obstacles-Avoiding Behaviors for a Mobile Robot*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, Vol. LXI, No. 3/2009, 6th International SPC Symposium on Process Control 2009, Ploiești 2009, ISSN 1224-8495.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=1202&language=2&pageType=T>
- BDI 20.** Cangea O., Popescu C., *Simulating with Arena a Control Structure for Manufacturing Systems using Petri Nets*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, Vol. LX, No. 3B/2008, ISSN 1224-8495.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=715&language=2&pageType=T>
- BDI 21.** Popescu C., Cangea O., *Implementation of Neuro-fuzzy Controller on Khepera III Mobile Robot*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, Vol. LX, No. 3B/2008, ISSN 1224-8495.
<http://www.bulletin.upg-ploiesti.ro/content.jsp?page=721&language=2&pageType=T>
- BDI 22.** Popescu C., *Neural Network Techniques for Mobile Robot Navigation*, Annals of the University of Petroșani, Electrical Engineering vol.9, Universitas Publishing House Petroșani, Petroșani 2007.
<http://upet.ro/annals/electrical/doc/Electrical%202007.pdf>
- BDI 23.** Popescu C., *Mobile robot navigation using fuzzy logic for obstacle avoidance*, Bulletin of Petroleum-Gas University of Ploiesti, Technical Series, 5th International SPC Symposium on Process Control 2006, Ploiești 2006, ISSN 1224 – 8495.
<http://www.ace.upg-ploiesti.ro/>
http://ac.upg-ploiesti.ro/srait/spc_2006.pdf
- BDI 24.** Popescu C., Cangea O., Bucur G., *Issues about kinematics and dynamics of mobile robots*, Buletinul Universității Petrol-Gaze din Ploiești, 4th International Symposium on Process Control SPC 2003, Ploiești 2003, ISSN 1221-9371.
<http://www.ace.upg-ploiesti.ro/>
http://ac.upg-ploiesti.ro/srait/spc_2003.pdf
- BDI 25.** Cangea O., Bucur G., Popescu C., *Modeling the arm of a robot manipulator for drilling plants*, Buletinul Universității Petrol-Gaze din Ploiești, 4th International Symposium on Process Control SPC 2003, Ploiești 2003, ISSN 1221-9371.
<http://www.ace.upg-ploiesti.ro/>
http://ac.upg-ploiesti.ro/srait/spc_2003.pdf
- BDI 26.** Bucur G., Cangea O., Popescu C., *Automatic wig welding control using neural network*, Buletinul Universității Petrol-Gaze din Ploiești, 4th International Symposium on Process Control SPC 2003, Ploiești 2003, ISSN 1221-9371.
<http://www.ace.upg-ploiesti.ro/>
http://ac.upg-ploiesti.ro/srait/spc_2003.pdf

C.3 Articole publicate în reviste naționale de categoriile B+ și B, în cotarea CNCIS

- 3.3.1.** Chiriac (Bucur), G., Cangea, O., **Popescu, C.** – *Utilizarea rețelelor neuronale artificiale în conducerea proceselor de sudare robotizate*, The 6th Conference on fine mechanic and mechatronic – COMEFIM 6, Brasov, 8-10 oct, 2002.
- 3.3.2.** Cangea O., Popescu C., Bucur G., - *Rețele neuronale în conducerea robotilor manipulatori pentru manevra instalatiei de foraj*, The 6thConference on fine mechanic and mechatronic – COMEFIM 6, Brasov, 8-10 oct., 2002.
- 3.3.3.** Cangea O., **Popescu C.**, *Conducerea neuro-fuzzy a roboților manipulatori din industria petrolieră*, Sesiunea de comunicări științifice “35 de ani de activitate a Universității Petrol-Gaze la Ploiești”, Ploiești, 27-29 noiembrie, 2002.

(D) Lucrări/studii publicate (prezentate) la manifestări științifice internaționale sau naționale cu comitet de program,

(E) Brevete de invenție,

(F) Proiecte de cercetare dezvoltare inovare pe bază de grant/contract

F.1. Proiecte de cercetare-dezvoltare-inovare obținute prin competiție pe bază de grant

F.1.1 Proiecte de cercetare-dezvoltare-inovare obținute prin competiție pe bază de grant, în calitate de director

F.1.2 Proiecte de cercetare-dezvoltare-inovare obținute prin competiție pe bază de grant, în calitate de membru în colectiv

- F.1.2.1. *Contract (grant) tip PI, 143/2007, Dezvoltarea unui laborator pentru aplicarea tehnologiilor CIM, beneficiar Autoritatea Nationala pentru Cercetare Stiintifica.*
- F.1.2.2. *Contract (grant) CEEEX 3153/2006, Echipamente si sisteme biometrice de identificare si autentificare a persoanelor pentru autorizarea accesului în rețelele informatice si obiectivele de importanta majora – AMPRENTA, beneficiar AgentiaSpatiala Romana.*
- F.1.2.3. *Contract (grant) PN II 81005/2007, Sisteme, echipamente, tehnologii si tehnici avansate destinate cresterii gradului de protectie a infrastructurilor si obiectivelor de interes public si privat – AVPROT*

F.2. Contracte de cercetare-dezvoltare-inovare pe bază de contract cu societăți comerciale sau alți parteneri sociali

F.2.1 Contracte de cercetare-dezvoltare-inovare pe bază de contract cu societăți comerciale sau alți parteneri sociali, în calitate de director

Contract nr. 3/12.02.2016, Dezvoltarea unor structuri de roboti mobili si sisteme de conducere dedicate deservirii depozitelor inteligente, beneficiar S.C. NETSYS CONSULT S.R.L.

F.2.2. Contracte de cercetare-dezvoltare-inovare pe bază de contract cu societăți comerciale sau alți parteneri sociali, în calitate de membru în colectivul de cercetare

- F.2.2.1. *Contract 36/2007, Particularitati si consecinte ale comportarii mecanice a rocilor colectoare asupra caracteristicilor de curgere a gazelor prin zacamintele exploatate de ROMGAZ – sucursala Medias, beneficiar ROMGAZ SA MEDIAS – Sucursala Ploiesti.*
- F.2.2.2. *Contract 41/2007, Cercetari privind posibilitatile de mentinere si eventual de crestere a coeziunii rocilor din depozitele subterane de gaze exploatate de SNGN ROMGAZ SA – Sucursala de Inmagazinare Subterana a Gazelor Naturale Ploiesti, Beneficiar ROMGAZ MEDIAS.*

F2.2.3. *Contract de cercetare 43/2002, Analiza stadiului actual al managementului tehnic si economic al Sucursalei Peco Prahova, Beneficiar SNP Petrom, Sucursala Petrobrazi.*

12.10.2025

Conf.dr.ing. Cristina Popescu