

Dan Constantin PUCHIANU

Lista de publicații

Lista celor mai relevante publicații

1. Dinca Marius-Alexandru; Ardeleanu, Mihaita Nicolae; **Puchianu Dan Constantin**; Predusca, Gabriel, *Preliminary Study on Sensor-Based Detection of an Adherent Cell's Pre-Detachment Moment in a MPWM Microfluidic Extraction System*, SENSORS Volume 25 Issue 9 DOI 10.3390/s2509272, WOS:001486710200001, eISSN 1424-8220, Article Number 2726, Published APR 25 2025, Journal Impact Factor TM(2024) 3.5 (Q2) [link](#)
2. **Puchianu Dan Constnatin**, *Exploring the use of web applications and neural networks for car parking services*, Scientific Papers. Series E. qLand Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, pag. 914-920, 0.3, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, 2024, WOS:001411932400046, [link](#)
3. **Puchianu Dan Constnatin**, *Waste classification using vision transformers*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, pag. 727-733, 0.3, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, WOS:001335679300006, [link](#)
4. **Puchianu Dan Constnatin**, *A deep-learning based method for waste detection*, Scientific Papers-Series E-Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, pag. 218-225, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, 2024, WOS: 001411932400020, [link](#)
5. Puchianu Dan Constnatin, *Waste classification using efficient neural networks and web application*, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering. Vol. XIII, pag. 226-233, Print ISSN 2285-6064, CD-ROM ISSN 2285-6072, Online ISSN 2393-5138, ISSN-L 2285-6064, 2024, WOS: 001411932400021, [link](#)
6. Cristian Stanescu, Gabriel Predusca, Nicoleta Angelescu, Liana Denisa Circumarescu, **Dan Constantin Puchianu**, *Exploring the Use of MPLS Technologies in Banking Transactions*, 2024 28th International Conference on System Theory, Control and Computing (ICSTCC), WOS:001440908400031, DOI: 10.1109/ICSTCC62912.2024.10744769, Electronic ISBN:979-8-3503-6429-3, USB ISBN:979-8-3503-6428-6, Print on Demand(PoD) ISBN:979-8-3503-6430-9,

Electronic ISSN: 2473-5698, Print on Demand(PoD) ISSN: 2372-1618, Sinaia, ROMANIA, [link](#)

7. Liana Denisa Circumarescu; Gabriel Predusca; Nicoleta Angelescu; **Dan Constantin Puchianu**, *Comparative Analysis of Protocol RIP, OSPF, RIGRP and IGRP for Service Video Conferencing, E-mail, FTP, HTTP*, The 20th International Conference on Control Systems and Computer Science-CSCS20, 27-29 May 2015, ISBN 978-1-4799-1779-2, Bucharest, Romania, pp. 584-593, WOS:000380375200085, 2015; [link](#)
8. Nicoleta Angelescu; **Dan Constantin Puchianu**; Gabriel Predusca; Liana Denisa Circumarescu; George Movila, *DMVPN simulation in GNS3 network simulation software*, ECAI 2017, 9th International Conference on Electronics, Computers and Artificial Intelligence 29 June-01 July 2017, Targoviste, Romania, ISSN 1843 – 2115, 2017, DOI: 10.1109/ECAI.2017.8166444, WOS:000425865900060; [link](#)
9. Stanescu Cristian; Circumarescu Liana Denisa; Predusca Gabriel; Angelescu Nicoleta; **Puchianu Dan Constantin**; Hagiescu Daniela, *Study of medical image traffic using MPLS technology*, 2023 31st Mediterranean Conference on Control and Automation (MED), 2023, Electronic ISBN: 979-8-3503-1543-1, WOS: 001042336800056, DOI: 10.1109/MED59994.2023.10185825, [link](#)
10. Dragoescu Adrian-Daniel, Predusca Gabriel, **Puchianu Constantin Dan**, Circumarescu Liana Denisa, Angelescu Nicoleta, 2024, *Implementation of 802.11b/g/n Standards in 2.4GHz WLANs using MikroTik Equipment*, International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, ROMANIA, mai 16-18, pag. 77-82, DOI10.1109/AQTR61889.2024.10554113, ISBN 979-8-3503-6194-0979-8-3503-6193-3979-8-3503-6191-9, ISSN 1844-7872, WOS: 001253157800013, [link](#)

Teza de doctorat

Titlu: Optimizarea traficului în rețele inteligente de transport rutier. Susținută la Universitatea POLITEHNICA București, Facultatea de Automatică și Calculatoare pe 16.03.2007.
Conducător științific Prof. Dr. Ing. Radu DOBRESU

Cărți

1. Eugen Stefan Lakatos, Dan Constantin Puchianu, Modelare și simulare în SPICE, Editura Printech, București 2005, ISBN 973-718-160-3;
2. Eugen Ștefan Lakatoș, Nicolae Olariu, Dan Constantin Puchianu, Dispozitive și circuite electronice. Modelare și simulare, Editura AGIR, București, ISBN 978-973-720-320-5, 2010
3. Eugen Stefan Lakatos, Dan Constantin Puchianu, Modelare și simulare în SPICE. Manual de laborator, Valahia University Press, Târgoviște, ISBN 978-606-603-140-0, 2015
4. Eugen Stefan Lakatos, Dan Constantin Puchianu, Proiectare în microelectronică, Valahia University Press, Târgoviște, ISBN 978-606-603-179-0, 2017

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

1. **Dan Constantin Puchianu**; Henri-George Coanda, *Highway congestions - cause, components, solutions*, University Politehnica of Bucharest Scientific Bulletin Series C- Electrical Engineering and Computer Science, Volume 70, Issue 1, page 69-76, 2008, ISSN: 2286-3540, WOS:000421599300008, Factor de impact 0.3 [link](#)
2. Emil Diaconu; Horia Andrei; **Dan Puchianu**; Gabrie Predusca, *Advanced software system for optimization of Car parking services in urban area*, 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), ISBN:978-1-4673-5979-5, DOI: 10.1109/ATEE.2013.6563510, WOS:000332928500164, [link](#)
3. Liana Denisa Circumarescu; Gabriel Predusca; Nicoleta Angelescu; **Dan Constantin Puchianu**, *A New Approach to Improve Performance of Routing Protocols for Voice, Video Conferencing and FTP Services*, Control Systems and Computer Science (CSCS), 2017 21st International Conference on, 29-31 May 2017, **Electronic ISSN: 2379-0482**, DOI: 10.1109/CSCS.2017.61, pp. 392-398, 2017, WOS:000449004400054, [link](#)
4. **Dan Puchianu**; Ion Caciula; Horia Andrei; Emil Diaconu; Paul Cristian Andrei, *New approaches of nonlinear circuit elements analysis in frequency domain*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), DOI: 10.1109/ECAI.2017.8166413, ISBN:978-1-5090-6457-1, WOS:000425865900029, [link](#)
5. Cezar G. Dumitrache; Gabriel Predusca; Liana Denisa Circumarescu; Nicoleta Angelescu; **Dan Constantin Puchianu**, *Comparative study of RIP, OSPF and EIGRP protocols using Cisco Packet Tracer*, 2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE), Electronic ISBN:978-1-5386-2059-5, DOI: 10.1109/ISEEE.2017.8170694, WOS:000428234400070, [link](#)
6. Marius Alexandru Dinca; Nicoleta Angelescu; **Dan Constantin Puchianu**; Gabriel Predusca; Denisa Circumarescu, *Web platform for integration of transcoding in AWS cloud domain with 3D Web graphics*, 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), DOI: 10.1109/ECAI.2018.8678977, 2018, WOS:000467734100047, [link](#)
7. Andrei-Cristian Nastase; Gabriel Predusca; **Dan Constantin Puchianu**; Liana-Denisa Circumarescu; Nicoleta Angelescu, *Simulation Based of Comparative Study of Routing Protocols for Real Time Applications*, 2019 22nd International Conference on Control Systems and Computer Science (CSCS), pag. 531-535, 28-30 May 2019, DOI: 10.1109/CSCS.2019.00097, 2019, WOS:000491270300090, [link](#)
8. Marius Alexandru Dinca; Nicoleta Angelescu; Radu Dragomir; **Dan Constantin Puchianu**; Ion Caciula, *Digital Media Distribution Platform Using Amazon Web Services*, 2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 27-29 June 2019, DOI: 10.1109/ECAI46879.2019.9042112, Pitesti, Romania, 2019, WOS:000569985400127, [link](#)
9. **Dan Constantin Puchianu**; Nicoleta Angelescu; Gabriel Predusca; Denisa Circumarescu; Emil Diaconu, *Comparative study of power consumption on Mikrotik*

and Fortigate routers, 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 25-27 June 2020, DOI: 10.1109/ECAI50035.2020.9223210, ISBN:978-1-7281-6843-2, 2020, WOS:000627393500086, [link](#)

10. Pica Stefan Aurel, Predusca Gabriel, Circiumarescu Denisa, Angelescu Nicoleta, **Puchianu Dan Constantin**, *Analysis of file transfer traffic using MPLS technology*, 26th International Conference on System Theory, Control and Computing (ICSTCC), 19-21 octombrie, Sinaia, Romania, DOI10.1109/ICSTCC55426.2022.9931894, , ISBN 978-1-6654-6746-9, ISSN 2372-1618, 2022, WOS:000889980600010, [link](#)
11. Cezar-Gabriel Dumitrache, Cosmin Alexandru Ghita, Gabriel Predusca, Liana Denisa Circiumarescu, Nicoleta Angelescu, **Dan Constantin Puchianu**, *The Efficiency of Routing Protocols, OSPF and EIGRP, Using Graphical Network Simulator-3 and Python*, 2024 28th International Conference On System Theory, Control And Computing, ICSTCC, Sinaia, ROMANIA, DOI 10.1109/ICSTCC62912.2024.10744665, , ISBN 979-8-3503-6430-9979-8-3503-6429-3, ISSN 2372-1618, 2024, WOS: 001440908400032, [link](#)

Articole BDI

1. Aurel Ștefan Pica; Isabela Elena Bănescu; **Dan Constantin Puchianu**, *Improving Water Quality Using an Intelligent Electrical Device*, 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June 2022 - 01 July 2022, Ploiesti, Romania, ISBN: 978-1-6654-9535-6, DOI: 10.1109/ECAI54874.2022.9847440, (Scopus), [link](#)
2. Ion Caciula; Horia Andrei; Emil Diaconu; **Dan Constantin Puchianu**; Mihai Iordache; Paul Cristian Andrei; Marilena Stanculescu; Maria Lavinia Iordache Bobaru, *Numerical Method Analysis of Nonlinear Elements Behavior in Non-sinusoidal State*, 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), **Electronic**, Bucharest, Romania, **ISBN:** 979-8-3503-3193-6, **DOI:** 10.1109/ATEE58038.2023.10108338, (Scopus), [link](#)
3. Aurel Stefan Pica; Gabriel Predusca; Nicoleta Angelescu; Denisa Circiumarescu; **Dan Constantin Puchianu**, *Analysis of MPLS Technology in the Case of Virtual Networks*, 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June 2022 - 01 July 2022, INSPEC Accession Number: 21990208, DOI: 10.1109/ECAI54874.2022.9847502, ISBN:978-1-6654-9535-6, Ploiesti, Romania, (Scopus), [link](#)
4. Aurel Stefan Pica; Isabela Elena Banescu; **Dan Constantin Puchianu**, *Energy consumption analysis in the field of residential constructions*, 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June 2022 - 01 July 2022, INSPEC Accession Number: 21990209, ISBN: 978-1-6654-9535-6, DOI: 10.1109/ECAI54874.2022.9847315, Ploiesti, Romania, (Scopus), [link](#)
5. Cezar Dumitrache; Gabriel Predusca; Gheorghe Gavriloaia; Nicoleta Angelescu; Denisa Circiumarescu; **Dan Constantin Puchianu**, *Comparative analysis of routing protocols using GNS3, Wireshark and IPerf3*, 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June 2022 - 01 July 2022,

- INSPEC Accession Number: 21990297, DOI:10.1109/ECAI54874.2022.9847499, ISBN: 978-1-6654-9535-6, Ploiesti, Romania (Scopus), [link](#)
6. Valentin Ion; Horia Andrei; Emil Diaconu; **Dan Constantin Puchianu**; Andrei Cosmin Gheorghe, *Cost and energy consumption analysis of residential security systems*, 7th International Symposium on Electrical and Electronics Engineering (ISEEE), 28-30 October 2021, INSPEC Accession Number: 21587159, DOI: 10.1109/ISEEE53383.2021.9628613, ISBN: 978-1-6654-3799-8, Print on Demand(PoD) ISBN:978-1-6654-3800-1, Galati, Romania, (Scopus), [link](#)
 7. Iulian Georgescu; Nicoleta Angelescu; **Dan Constantin Puchianu**; Gabriel Predusca; Liana-Denisa Circumarescu, *Software defined radio applications - receiving and decoding images transmitted by weather satellites*, 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 1-3 July 2021, DOI: 10.1109/ECAI52376.2021.9515169, Electronic ISBN: 978-1-6654-2534-6, USB ISBN: 978-1-6654-2533-9, Print on Demand(PoD) ISBN: 978-1-6654-3091-3 (Scopus), [link](#)
 8. Stanescu Cristian; Apostol Florin Georgian; Predusca Gabriel; Circumarescu Liana Denisa; Angelescu Nicoleta, **Puchianu Dan Constantin**, *IoE simulation with Cisco Packet Tracer*, 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2023, pp. 01-06, DOI: 10.1109/ECAI58194.2023.10194081, (Scopus), [link](#)
 9. Stanescu Cristian; Predusca Gabriel; Angelescu Nicoleta; Circumarescu Liana Denisa; **Puchianu Dan Constantin**, *Guaranteeing Services in MPLS Virtual Networks — the Case of File Transfer Type Traffic*, 2023 24th International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2023, pp. 295-300, DOI: 10.1109/CSCS59211.2023.00053, (Scopus), [link](#)
 10. Stanescu Cristian; Militaru Eduard Gabriel; Predusca Gabriel; Circumarescu Liana Denisa; Angelescu Nicoleta; **Puchianu Dan Constantin**, *VoIP system for Wi-Fi Networks and Smart Terminals*, 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2023, pp. 01-06, DOI: 10.1109/ECAI58194.2023.10194061, (Scopus), [link](#)
 11. Cristian Stanescu; Gabriel Predusca; Liana Denisa Circumarescu; Nicoleta Angelescu; **Dan Constantin Puchianu**, *Evaluating Email Traffic Patterns in Active MPLS Networks: A Comparative Analysis*, 2024 16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi, Romania, Electronic ISBN:979-8-3503-7115-4, DOI: 10.1109/ECAI61503.2024.10607505, USB ISBN:979-8-3503-7114-7, Print on Demand(PoD) ISBN:979-8-3503-7116-1, (Scopus), [link](#)
 12. Cristian Stanescu, Teodor Paunescu, Gabriel Predusca, Liana Denisa Circumarescu, Nicoleta Angelescu, **Dan Constantin Puchianu**, *Performance Evaluation of CDMA and GSM Systems through NetSim Simulations*, 2025 33rd Mediterranean Conference on Control and Automation (MED), DOI: 10.1109/MED64031.2025.11073525, Electronic ISBN:979-8-3315-7719-3, USB ISBN:979-8-3315-7718-6, Print on Demand(PoD) ISBN:979-8-3315-7720-9, Electronic ISSN: 2473-3504, Print on Demand(PoD) ISSN: 2325-369X, Tangier, Morocco, 10-13 June 2025 (IEEE Xplore), [link](#)

