Universitatea Tehnică din Cluj-Napoca
Facultatea de Electronică, Telecomunicaţii şi Tehnologia Informaţiei
Departamentul Comunicatii
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LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„„Transmisia informaţiei în reţele de bandă largă”
Conducător ştiinţific : Prof.dr.ing Costin Miron
Domeniul Electronică şi Telecomunicaţii
Universitatea Tehnică din Cluj-Napoca
Susţinere publică: *27.06.2003.*

B – Cărţi şi capitole în cărţi publicate

CĂRŢI

1. C.M. Vancea**, D. Zinca,** *Retele de Calculatoare. Indrumator de laborator*, Editura UTPRESS, Cluj-Napoca, 2011, ISBN: 978-973-662-652-2, 151 pag.;
2. **D. Zinca**, *Retele de Calculatoare*, Editura RISOPRINT, Cluj-Napoca, ISBN 978-973-751-223-9, 120 pag. 2006;
3. V. DOBROTĂ, **D. ZINCA** - *Reţele de comunicaţii multimedia*. CTMED, Cluj-Napoca, 1999.

CAPITOLE DE CARTE

1. Aurel Vlaicu (editor coordinator), Radu Vasiu, Mugur Mocofan, Bogdan Orza, Tudor Samuila, Nicolae Muresan, Dorin Petreus, Niculaie Palaghita, Cristian Farcas, Virgil Dobrota, Tudor Blaga, **Daniel Zinca**, Marian Alexandru, Radu Arsinte, Mihai Romanca, Petre Ogrutan, Florin Sandu, Csaba Kertesz, Adrian Nedelcu, Paul Borza, Intelligent Buildings. IT&C Systems, Technologies and Integrated Solutions. UT Press Publishers, Cluj-Napoca 2008, ISBN: 978-973-662-397-4 (in Romanian)

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole in reviste cotate ISI si in volumele unor manifestari indexate ISI Proceedings

1. R. Botez, **D. Zinca**, V. Dobrota, „Redefining 6G Network Slicing: AI-Driven Solutions for Future Use Cases”, 2025·*ELECTRONICS*·Article·vol. 14·nr. 2·art. 368, eISSN 2079-9292, DOI 10.3390/electronics14020368, WOS:001405206600001.
2. G.R. Andreica, G.L. Tabacar, **D. Zinca**, I.A. Ivanciu, V. Dobrota, „Denial of Service Attack Prevention and Mitigation for Secure Access in IoT GPS-based Intelligent Transportation Systems”, 2024 ELECTRONICS Article vol. 13 nr. 14 art. 2693, eISSN 2079-9292, DOI 10.3390/electronics13142693, WOS:001277655900001, ISI Q2.

3. A.T. Costin, **D. Zinca** and V. Dobrota, „A Real-Time Streaming System for Customized Network Traffic Capture", 2023 SENSORS Article vol. 23 nr. 14 art. 6467, eISSN 1424-8220, DOI 10.3390/s23146467, WOS:001036373600001, ISI Q2.
4. A.G. Mari, **D. Zinca** and V. Dobrota, „Development of a Machine-Learning Intrusion Detection System and Testing of Its Performance Using a Generative Adversarial Network", 2023 Sensors, Vol 23 nr 3, eISSN 1424-8220, DOI 10.3390/s23031315, WOS:000930773600001, ISI Q2.
5. A.T. Costin, **D. Zinca** and V. Dobrota, „LAN Traffic Capture Application using the Libtins Library", 2021 Electronics, Vol 10 No 24 Article 3084, eISSN2079-9292, DOI: 10.3390/electronics10243084, WOS:000742426500001, ISI Q2.
6. C.M. Iurian, I.A. Ivanciu,B.M. Marian, **D. Zinca**, and V. Dobrota,"An SDN Architecture for IoT Networks using ONOS Controller" Proceedings of the 19th RoEduNet Conference: Networking in Education and Research, "Politehnica" University of Bucharest, Romania, December 11-12, 2020, pp. 1-6, Electronic ISBN:978-0-7381-1265-7, Print on Demand (PoD) ISBN:978-0-7381-1266-4, Electronic ISSN: 2247-5443, Print on Demand (PoD) ISSN: 2068-1038, DOI: 10.1109/RoEduNet51892.2020.9324887, WOS:000654265900035**.**
7. G.R. Andreica, L. Bozga, **D. Zinca**, and V. Dobrota, "Denial of Service and Man-in-the-Middle Attacks against IoT Devices in a GPS-based Monitoring Software for Intelligent Transportation Systems", Proceedings of the 19th RoEduNet Conference: Networking in Education and Research, "Politehnica" University of Bucharest, Romania, December 11-12, 2020, pp. 1-4, Electronic ISBN:978-0-7381-1265-7, Print on Demand (PoD) ISBN:978-0-7381-1266-4, Electronic ISSN: 2247-5443, Print on Demand (PoD) ISSN: 2068-1038, DOI: 10.1109/RoEduNet51892.2020.9324865, WOS:000654265900017.
8. A. Costin, **D.Zinca**, Extending the libtins library with SIP and RTP classes, 2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC) , Timisoara, 05-06 November 2020, pp. 371-374.ISBN978-1-7281-8921-5, ISSN2475-787X, WOS:000612681000089.
9. M. Sălăgean, **D.Zinca**, IoT Applications based on MQTT Protocol, 2020 14TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC) , Timisoara, 05-06 November 2020, pp.375-378. ISBN978-1-7281-8921-5, ISSN2475-787X, WOS:000612681000090.
10. R. Onet, I.A. Ivanciu, R. Burian, **D. Zinca**, C.M. Campeanu, and V. Dobrota, "Automatic Deployment of a Network Overlay in an Intelligent Transportation System: Docker and Open Baton Approach", Proceedings of the 18th RoEduNet Conference: Networking in Education and Research, "Dunarea de Jos" University of Galati, Romania, 10-12 October 2019, Electronic ISBN: 978-1-7281-5344-5, Print on Demand (PoD) ISBN: 978-1-7281-5345-2, Electronic ISSN: 2247-5443, Print on Demand (PoD) ISSN: 2068-1038, DOI: 10.1109/ROEDUNET.2019.8909588, WOS:000520513500020.
11. I.A. Ivanciu, L. Ivanciu, **D. Zinca** and V. Dobrota, "Securing Health-Related Data Transmission Using ECG and Named Data Networks", Proceedings of the 25th IEEE International Symposium on Local and Metropolitan Area Networks LANMAN 2019, Paris, France, July 1-3, 2019, Electronic ISBN: 978-1-7281-1434-7, Print on Demand (PoD) ISBN:

978-1-7281-1435-4, Electronic ISSN: 1944-0375, Print on Demand (PoD) ISSN: 1944-0367, DOI: 10.1109/LANMAN.2019.8846993, WOS:000617951400007.

12. **D.Zinca**, Experiments with Protocols and Frameworks used in IoT, The 12th International Conference on Communications, COMM 2018, 14-16 June 2018, Bucharest, pg.277 – 280, ISBN:978-1-5386-2350-3, ISSN1550-3607, WOS:000449526000051.
13. **D.Zinca,** M.O.Popa, Development of a ZettaJS driver for the ESP8266 IoT hardware, 2018 13TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC), 08-09 November 2018,Timisoara, pg. 217-220, ISBN978-1-5386-5925-0,ISSN2475-787X, WOS:000463031500048.
14. **D.Zinca,** V.A. Negrean, Development of a Road Tax Payment Application using the Ethereum Platform, 2018 13TH INTERNATIONAL SYMPOSIUM ON ELECTRONICS AND TELECOMMUNICATIONS (ISETC), 08-09 November 2018,Timisoara, pg. 211-214 ISBN978-1-5386-5925-0,ISSN2475-787X, WOS:000463031500047

c2) Studii publicate la conferinţe indexate în baze de date internaţionale de referinţă în domeniu (DBLP, ACM, IEEE, SCOPUS)[1]

1. A.T. Sferle, A.B. Rus, D. Zinca, V. Dobrota, „Simplifying the Design of an FPGA-Based CoAP Non-Confirmable Message Transmitter”, 2026 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR, eISBN 979-8--31952970-1, eISSN 1844-7872, DOI 10.1109/aqtr70159.2026.11577826, **IEEE, Scopus** 105045427423.
2. A.T. Sferle, T.M. Blaga, **D. Zinca**, V. Dobrota, „Simplified Design of an FPGA-Accelerated Connectionless Network Stack”, 2025 RoEduNet IEEE International Conference, eISBN 979-8--33155713-3, ISSN 2068-1038, DOI 10.1109/roedunet68395.2025.11207605 , **IEEE, Scopus** 105022417687
3. A.T. Sferle, **D. Zinca**, I.A. Iustin, V. Dobrota, „A Native Architecture Model to Enable FPGAs in Cloud Environments”, 2025 33rd International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2025, eISBN 978-953-290-143-6, DOI 10.23919/softcom66362.2025.11197387, **Scopus** 105021990858.
4. **D. Zinca**, A. Negrea, „Comparative Study of Phishing URL Detection Using Artificial Intelligence Algorithms”, 2024, 2024 16th International Symposium on Electronics and Telecommunications, ISETC 2024 - Conference Proceedings, eISBN 979-8-3503-9086-5, DOI 10.1109/isetc63109.2024.10797218, **IEEE, Scopus** 85216024897.
5. A.A. Encean, **D.Zinca**, *Cryptocurrency Price Prediction Using LSTM and GRU Networks*, 2022 International Symposium on Electronics and Telecommunications ISETC-2022, Timisoara, Romania, 10-11 Nov 2022, pp. 1-4, doi: 10.1109/ISETC56213.2022.10010329
   *Indexata in baza de date **IEEE***
6. A. T. Costin, **D.Zinca**, *Network traffic logger with real-time streaming and spoofing capabilities*, 2022 International Symposium on Electronics and Telecommunications

[1] indexate în:
[IEEE] - IEEE Xplore (http://ieeexplore.ieee.org/Xplore/guesthome.jsp)
[ACM] - ACM portal (http://portal.acm.org)
[DBLP] - (http://www.informatik.uni-trier.de)
[SCOPUS] - (http://www.scopus.com)

ISETC-2022, Timisoara, Romania, 10-11 Nov 2022, pp. 1-4, doi: 10.1109/ISETC56213.2022.10010247
*Indexata in baza de date **IEEE***

7. L. Manases, **D.Zinca**, *Automation of Network Traffic Monitoring using Docker Images of Snort3, Grafana and a custom API*, 2022 21st RoEduNet Conference: Networking in Education and Research, Sovata, Romania, 2022, pp. 1-4, doi: 10.1109/RoEduNet57163.2022.9921063
*Indexata in baza de date **IEEE***
8. R.P. Cota, **D.Zinca**, *Comparative Results of Spam Email Detection using Machine Learning Algorithms, utomation of Network Traffic Monitoring using Docker Images of Snort3, Grafana and a custom API*, 2022 14th International Conference on Communications (COMM), Bucharest, Romania, 2022, pp. 1-5, doi: 10.1109/COMM54429.2022.9817305
*Indexata in baza de date **IEEE***

D – Lucrări publicate în ultimii 10 ani în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. G.R. Andreica, I.A. Ivanciu, **D. Zinca**, V. Dobrota, „Integration of the Suricata Intrusion Detection System and of the Wazuh Security Information and Event Management for Real-Time Denial-of-Service and Data Tampering Detection”, Acta Technica Napocensis Electronics and Telecommuncations vol. 64 nr. 2, 2024, p. 1–8, ISSN 1221-6542
2. O.D. Selin, A.T. Sferle, T. M. Blaga, **D. Zinca**, V, Dobrota, „WebRTC and PJSIP in Asterisk: A Cloud-Based Approach”, Acta Technica Napocensis. Electronica-Telecomunicatii vol. 64 nr. 1. 2024, p. 26–35, ISSN 1221-6542
3. A. Lazar, T.M. Blaga, **D. Zinca**, V Dobrota, „Security Issues in Internet of Things Botnets: A High Interaction Honeypot Approach”, *Acta Technica Napocensis* Electronics and Telecommuncations vol. 63·nr. 2, 2023·p. 7–18, ISSN 1221-6542
4. **D. Zinca**, V. Dobrota, „DDoS Attack Detection Using Supervised Machine Learning Algorithms over the CIDDOS2019 DataSet”, Acta Technica Napocensis. Electronics and Telecommuncations vol. 63 nr. 1 2023, p. 6–11, ISSN 1221-6542
5. G.R. Andreica, C. Stangu, I. A. Ivanciu, V, Dobrota, „Secure Access with Teltonika GPS Tracking Devices for Intelligent Transportation Systems”, Acta Technica Napocensis. Electronics and Telecommuncations vol. 63 nr. 1 2023, p. 12–17, ISSN 1221-6542
6. C.M. Iurian, **D.Zinca**, I.A. Ivanciu, T.M. Blaga,V.Dobrota, „A SYN Flooding DDoS Attack Detection in P4-Based Programmable Netwoks”, *Acta Technica* Napocensis Electronics and Telecommuncations, Volume 62, Number 2, 2022, pp 19-24, ISSN 1221-6542

E – Brevete obţinute pentru întreaga activitate

F – Contracte de cercetare (2021-2026)

1. A. Colesa (project responsible), **D. Zinca**, T. Blaga (members) ID 2024-348638 „Cybersecurity Seminars”, 2024-2026
2. V. Dobrota (WP responsible), **D.Zinca**, I.Ivanciu, R. Botez, ID 10.PI/I4/C9, „SENTHICOM -UTCN (SENse, THInk and COMmunicate) ”, 2026-2029

Data Semnătura
23.10.2026