Universitatea Tehnică din Cluj-Napoca
Facultatea de Electronică, Telecomunicaţii şi Tehnologia Informaţiei
Departamentul Comunicatii
Drd. ing. Alin-Tudor SFERLE

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

Doctorand: din 30.09.2024
Titlu: "Cloud-Native Considerations for the Integration of Heterogenous Embedded Systems as Network-Oriented Processors"
Conducător ştiinţific: Prof.dr.ing. Virgil Dobrota
Domeniul: inginerie electronică, telecomunicații si tehnologii informationale
Universitatea Tehnica din Cluj-Napoca

B – Cărţi şi capitole în cărţi publicate

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, A.G. Pasca, **A.T. Sferle**, I.A. Ivanciu, and V. Dobrota, "Efficient Network Slicing with SDN and Heuristic Algorithm for Low Latency Services in 5G/B5G Networks", Sensors 2023, 23(13), 6053; https://doi.org/10.3390/s23136053 WOS:001030144200001 (Q2 Journal).
2. R. Botez, **A.T. Sferle**, I.A. Ivanciu and V. Dobrota, "Work-in-Progress: KubeUT: A Cloud-Agnostic Kubernetes Management Platform", *Proceedings of the 11th International Black Sea Conference on Communications and Networking BlackSeaCom 2023,* Istanbul, Turkiye, 2023, pp. 384-389, Electronic ISBN:979-8-3503-3782-2, Print on Demand (PoD), ISBN:979-8-3503-3783-9, doi: 10.1109/BlackSeaCom58138.2023.10299745, WOS:001836698600067.

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

1. **A. -T. Sferle,** A. -B. Rus, D. Zinca and 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)*, Baile Felix, Romania, 2026, pp. 1-4, doi: 10.1109/AQTR70159.2026.11577826.
2. **A. -T. Sferle,** D. Zinca, I. -A. Ivanciu and V. Dobrota, "A Native Architecture Model to Enable FPGAs in Cloud Environments," *2025 International Conference on Software, Telecommunications and Computer Networks (SoftCOM)*, Split, Croatia, 2025, pp. 1-6, doi: 10.23919/SoftCOM66362.2025.11197387.

[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)

3. **A. -T. Sferle,** T. -M. Blaga, D. Zinca and V. Dobrota, "Simplified Design of an FPGA-Accelerated Connectionless Network Stack," *2025 24th RoEduNet Conference: Networking in Education and Research (RoEduNet)*, Chisinau, Moldova, Republic of, 2025, pp. 1-6, doi: 10.1109/RoEduNet68395.2025.11207605.

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

1. O.D. Selin, **A.T. Sferle**, T.M. Blaga, D. Zinca, and V. Dobrota, "WebRTC and PJSIP in Asterisk: A Cloud-Based Approach", *ACTA TECHNICA NAPOCENSIS*, Electronics and Telecommunications", ISSN 1221-6542, Vol.64, No.1, 2024, pp.26-35.
2. **A. Sferle**, "WayToTUCN, an Educational Bot with QnA Maker and Azure Bot Service", Book of Abstracts. Students' International Conference "CERC", Volume 3/2020, No. 1, ISSN: 2601- 7989, ISSN-L: 2601-7989, pp. 47, Military Technical Academy "Ferdinand I" Bucharest, 2020, [Online], Available: https://www.mta.ro/international/wpcontent/uploads/2020/11/CERC_Book_of_Abstracts_final_2020.pdf.

E – Brevete obţinute pentru întreaga activitate

F – Contracte de cercetare (2021-2026)

Data, Semnătura,

23.10.2026