

Universitatea: *Academia Tehnică Militară „Ferdinand I”*

Facultatea: *Comunicații și Sisteme Electronice pentru Apărare și Securitate*

Departament: *Comunicații și Tehnologia Informației*

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## **L I S T A**

### **lucrărilor științifice în domeniul disciplinelor din postul didactic**

#### **A. Teza de doctorat**

1. Despina-Stoian, “ *Self-Interference Cancellation Approaches for In-Band Full-Duplex Communications using SDR Platforms*”, Universitatea Bretagne Occidentale, Brest, Franța, 2023 (Coordonatori: *prof. dr. ing. Emanuel Rădoi și prof. dr. ing. Alexandru Șerbănescu* ) (NNT : 2023BRES0077). (tel-04822080).

#### **B. Cărți și capitole în cărți publicate în ultimii 10 ani**

1. Florin ENACHE, Cristina DESPINA-STOIAN, Bogdan BELEGA, Daniel CONSTANTIN, Amado ȘTEFAN, Călin GALERIU. *FIZICĂ Culegere de probleme tip grilă pentru admitere în Academia Tehnică Militară „Ferdinand I”*, ISBN 978-973-640-356-9, Editura Academiei Tehnice Militare “Ferdinand I” București – 2025.
2. Jeler GRIGORE, Cristina DESPINA-STOIAN. *CIRCUITE INTEGRATE ANALOGICE: Îndrumar de laborator - Volumul I*, ISBN 978-973-640-347-0, Editura Academiei Tehnice Militare “Ferdinand I” București – 2025.

#### **C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. D. Nastasiu, D. Stanescu, A. Digulescu, C. Ioana, C.Despina-Stoian, "Early Fault Indicator Through Continuous Surveillance of Transient Phenomena in Power Grid Systems", IET SMART GRID, 2025, Volume 8, Issue 1, doi:10.1049/stg2.70024, WOS:001576603900001 - Q2 - ENGINEERING, ELECTRICAL & ELECTRONIC.
2. D.Stanescu, D. Nastasiu, A. Digulescu, C. Ioana, C. Despina-Stoian, “Continuous monitoring of partial discharge activities in power cables and their stimulation due to the temperature rise,” IET Smart Grid, vol. 8, no. 1, p. e12187, Jan. 2025, doi: 10.1049/stg2.12187, WOS:001395475300001 - Q2 - ENGINEERING, ELECTRICAL & ELECTRONIC.
3. C. Demeslay, R. Gautier, P. Rostaing, A. Digulescu, C. Despina-Stoian, G. Burel, *A PAPR correction scheme for LoRa self-jamming waveforms*, IET COMMUNICATIONS, Volume18, Issue19, Page1588-1603, Published DEC 2024, DOI: 10.1049/cmu2.12854, WOS:001357321100001 - Q3 - ENGINEERING, ELECTRICAL & ELECTRONIC.
4. M. Nati, C. Despina-Stoian, D. Nastasiu, D. Stanescu, A. Digulescu, C. Ioana, V. Nanchen, *Non-Intrusive Continuous Monitoring of Leaks for an In-Service Penstock*. Sensors. 2024; 24(16):5182. <https://doi.org/10.3390/s24165182> Published: JUL 2024, Accession Number: WOS:001305568200001 - Q2 - INSTRUMENTS & INSTRUMENTATION.

## Agencia Română de Asigurare a Calității în Învățământul Superior

5. D. Voicu, R.M Stoica, R. Vilău, M. Marinescu, A. Digulescu, C. Despina-Stoian, F. Popescu, *Frequency Analysis of Vibrations in Terms of Human Exposure While Driving Military Armoured Personnel Carriers and Logistic Transportation Vehicles*. Electronics 2023, 12, 3152. <https://doi.org/10.3390/electronics12143152> Published: JUL 2023, Accession Number: WOS:001035019500001 - Q1 - Electrical and Electronic Engineering
6. A. Digulescu, C. Despina-Stoian, F. Popescu, D. Stanescu, D. Nastasiu, D. Sburlan, *UWB Sensing for UAV and Human Comparative Movement Characterization*. Sensors 2023, 23, 1956. <https://doi.org/10.3390/s23041956> Published: JAN 2023, Accession Number: WOS:000941805100001 - Q2 - INSTRUMENTS & INSTRUMENTATION.
7. Digulescu, A., Sârbu, A., Stanescu, D., Nastasiu, D., Despina-Stoian, C., Ioana, C., & Mansour, A. (2023). *Detection of OFDM modulations based on the characterization in the phase diagram domain*. Frontiers in Signal Processing, 3, 1197590: DOI10.3389/frsip.2023.1197590, Accession Number: WOS:001065189700001.
8. B.Q.Vuong, R. Gautier, A. Fiche, M. Marazin, C. Despina-Stoian, *Secrecy Coding Analysis of Short-Packet Full-Duplex Transmissions with Joint Iterative Channel Estimation and Decoding Processes*, Sensors 2022, 22, 5257. <https://doi.org/10.3390/s22145257> Published: JUL 2022, Accession Number: WOS:000834371200001 - Q2 - INSTRUMENTS & INSTRUMENTATION.
9. C. Despina-Stoian, R. Youssef, A. Digulescu, E. Radoi, R. Gautier, A. Serbanescu, *Widely-Linear Digital Self-Interference Cancellation in Full-Duplex USRP Transceiver*, Sensors. 2022; 22(24):9607. <https://doi.org/10.3390/s22249607> Published: DEC 2022, Accession Number: WOS:000904205800001 - Q2 - INSTRUMENTS & INSTRUMENTATION
10. A. Digulescu, C. Despina-Stoian, D. Stanescu, F. Popescu, F. Enache, C. Ioana, E. Radoi, I. Rincu, A. Serbanescu, *New Approach of UAV Movement Detection and Characterization Using Advanced Signal Processing Methods Based on UWB Sensing*, SENSORS Volume: 20 Issue: 20 Article Number: 5904 DOI: 10.3390/s20205904 Published: OCT2020, Accession Number: WOS:000585599400001 - Q1 - INSTRUMENTS & INSTRUMENTATION.
11. A. Oblu, A. Focsa, C. Despina-Stoian and S. Toma, "Synthetic Aperture Radar Position Estimation Using Stereo Cameras," 2025 33rd Telecommunications Forum (TELFOR), Belgrade, Serbia, 2025, pp. 1-4, doi: 10.1109/TELFOR67910.2025.11314334.
12. C. Ioana, D. Stanescu, D. Nastasiu, C. Despina and A. Digulescu, "Signal Processing using Phase Diagram Analysis - New Perspectives in Understanding Transient Features in Data Science," 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-8, doi: 10.1109/COMM62355.2024.10741482.
13. C. Demeslay, R. Gautier, P. Rostaing and C. Despina-Stoian, "A Synchronization Front-End for LoRa Self-Jamming Operation on SDR Platforms," 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-9, doi: 10.1109/COMM62355.2024.10741438.
14. D. Nastasiu, C. Despina-Stoian, A. Digulescu, C. Ioana and D. Stanescu, "Movement characterization of multirotor UAV based on their acoustic signature," 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-5, doi: 10.1109/COMM62355.2024.10741485.
15. D. Deparatanu, C. Despina-Stoian, F. Enache, F. Popescu and L. Anton, "Design of Waveguide Sparse Array Antenna by Optimization with Genetic Algorithm," 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Romania, 2023, pp. 96-99, doi: 10.1109/ISEEE58596.2023.10310450.
16. C. Despina-Stoian et al., "USRP Experimental Approach for Digital Self-Interference Cancellation in Full-Duplex Communications," 2021 International Conference on Advanced Technologies for Communications (ATC), 2021, pp. 232-236, doi: 10.1109/ATC52653.2021.9598203.
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