

Universitatea: *Academia Tehnică Militară „Ferdinand I”*

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

Departament: Departamentul de 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

Transient signal analysis in the context of wide band propagation environments, Universitatea Grenoble Alpes & Academia Tehnică Militară “Ferdinand I”, 2023.

B. Cărți și capitole în cărți publicate

1. **Denis Stanescu**, *Îndrumar de laborator pentru studiul comunicațiilor satelitare*, Editura Academiei Tehnice Militare „Ferdinand I”, 2022, 978-973-640-336-1.
2. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, “*On the Existing and New Potential Methods for Partial Discharge Source Monitoring in Electrical Power Grids*”, In: Zhang, YD., Senjyu, T., So-In, C., Joshi, A. (eds) *Smart Trends in Computing and Communications. Lecture Notes in Networks and Systems*, vol 286. Springer, Singapore, 2022, 978-981-16-4015-5.

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

- Reviste

1. **Stanescu, D.**; Buzducea, A., *An Overview of Satellite Link Budget Sensitivity Based on Digital Modulation Schemes in Multi-Orbit Satellite Networks*, Appl. Sci. 2025, <https://doi.org/10.3390/app15073473>
2. Nastasiu, D., **Stanescu, D.**, Digulescu, A., Ioana, C. and Despina-Stoian, C., *Early Fault Indicator Through Continuous Surveillance of Transient Phenomena in Power Grid Systems*, IET Smart Grid, 2025, <https://doi.org/10.1049/stg2.70024>
3. **Stanescu, D.**, Nastasiu, D., Digulescu, A., Ioana, C. and Despina-Stoian, C., *Continuous monitoring of partial discharge activities in power cables and their stimulation due to the temperature rise*, IET Smart Grid, 2025, <https://doi.org/10.1049/stg2.12187>.
4. Nati M, Despina-Stoian C, Nastasiu D, **Stanescu D**, Digulescu A, Ioana C, Nanchen V. *Non-Intrusive Continuous Monitoring of Leaks for an In-Service Penstock*, Sensors, 2024, <https://doi.org/10.3390/s24165182>
5. **Stanescu, D.**; Enache, F.; Popescu, F., *Smart Non-Intrusive Appliance Load-Monitoring System Based on Phase Diagram Analysis*, Smart Cities, 2024, doi.org/10.3390/smartcities7040076

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6. Digulescu A, Sârbu A, **Stanescu D**, Nastasiu D, Despina-Stoian C, Ioana C and Mansour A, *Detection of OFDM modulations based on the characterization in the phase diagram domain*, Front. Sig. Proc., 2023, doi: 10.3389/frsip.2023.1197590
7. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Spread spectrum modulation recognition based on phase diagram entropy", Front. Sig. Proc., 2023, doi: 10.3389/frsip.2023.1197619.
8. **Denis Stanescu**, Dragoș Nastasiu, Cornel Ioana, Angela Digulescu, "Characterization of digital modulations using the phase diagram analysis", Eur. Phys. J. Spec. Top, 2023, doi: 10.1140/epjs/s11734-022-00744-x.
9. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Entropy-Based Characterization of the Transient Phenomena—Systemic Approach", Mathematics, 2021, doi: 10.3390/math9060648.
10. Angela Digulescu; Cristina Despina-Stoian; Florin Popescu; **Denis Stanescu**; Dragoș Nastasiu; Dragoș Sburlan, "UWB Sensing for UAV and Human Comparative Movement Characterization", Sensors, 2023, doi: 10.3390/s23041956.
11. Angela Digulescu, Cristina Despina-Stoian, **Denis Stănescu**, Florin Popescu, Florin Enache, Cornel Ioana, Emanuel Rădoi, Iulian Rîncu, Alexandru Șerbănescu, "New Approach of UAV Movement Detection and Characterization Using Advanced Signal Processing Methods Based on UWB Sensing", Sensors, 2020, doi: 10.3390/s20205904.

- Conferințe

1. M. Nati, D. Nastasiu, **D. Stanescu**, A. Digulescu and C. Ioana, "Pipe Leaks Detection and Localization using Non-Intrusive Acoustic Monitoring", 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-5, doi: 10.1109/COMM62355.2024.10741455.
2. 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.
3. 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.
4. **D. Stanescu**, A. Digulescu, C. Ioana and I. Candel, "Early-Warning Indicators of Power Cable Weaknesses for Offshore Wind Farms", OCEANS 2023 - MTS/IEEE U.S. Gulf Coast, Biloxi, MS, USA, 2023, pp. 1-6, doi: 10.23919/OCEANS52994.2023.10337375.
5. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Modulation Recognition of Underwater Acoustic Communication Signals Based on Phase Diagram Entropy," OCEANS 2022 Hampton Roads, 2022, doi: 10.1109/OCEANS47191.2022.9977145.
6. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Transient power grid phenomena classification based on phase diagram features and machine learning

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classifiers”, 30th European Signal Processing Conference (EUSIPCO), 2 September, Belgrade, 2022, doi: 10.23919/EUSIPCO55093.2022.9909687.

7. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "A Novel Approach for Characterization of Transient Signals Using the Phase Diagram Features," 2021 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS), 2021, doi: 10.1109/COMCAS52219.2021.9629068.
8. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Low complexity acoustic positioning imaging system of underwater objects," OCEANS 2021: San Diego – Porto, 2021, doi: 10.23919/OCEANS44145.2021.9705913.
9. **Denis Stanescu**, Dragoș Nastasiu, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Low Complexity Acoustic Imaging System Based on Time of Arrivals Dynamic Estimation," 2021 10th Mediterranean Conference on Embedded Computing (MECO), 2021, doi: 10.1109/MECO52532.2021.9460241.
10. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "High-rate acoustic imagery for underwater object classification in dynamic configuration," OCEANS 2019 MTS/IEEE SEATTLE, 2019, doi: 10.23919/OCEANS40490.2019.8962880.
11. Răzvan Scripcaru, Dragoș Nastasiu, Angela Digulescu, **Denis Stănescu**, Cornel Ioana and Alexandru Șerbănescu, "On the potential of phase diagram analysis to identify the wide band modulations," 2020 13th International Conference on Communications (COMM), 2020, doi: 10.1109/COMM48946.2020.9141963.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Dragoș Nastasiu, **Denis Stănescu**, Cristina Despina-Stoian, Angela Digulescu, Cornel Ioana, Alexandru Șerbănescu, "*Surface Roughness Classification Using a Translation Invariant Wavelet Packet Decomposition*", Journal of Military Technology, Vol. 5, No. 2, 2022, doi: 10.32754/JMT.2022.2.01.
2. Alexandru Celmare, Angela Digulescu, Cristian Leca, Cristina Despina-Stoian, **Denis Stănescu** and Dragoș Nastasiu, "*Spectral Analysis in Mobile Communications*", Journal of Military Technology, Vol. 4, No. 2, 2021, doi: 10.32754/JMT.2021.2.01.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "A phase diagram approach for transient events detection and classification in power distribution networks", 28th Francophone Symposium on Signal and Image Processing (GRETSI), 9 September, Nancy, 2022.

E. Brevete obținute în întreaga activitate

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Semnătura: 