

Listă de lucrări

A. Teză de doctorat:

1. **Denis Stănescu** "Transient signal analysis in the context of wide band propagation environments", 2023.

B. Îndrumar de laborator:

1. **Denis Stănescu**, "Îndrumar de laborator pentru studiul comunicațiilor satelitare", *Editura Academiei Tehnice Militare „Ferdinand I”*, BUCUREȘTI, 2022, ISBN 978-973-640-336-1, 101 pagini.

C. Articole în reviste internaționale:

1. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Spread spectrum modulation recognition based on phase diagram entropy", *Front. Sig. Proc.* 3:1197619, 2023, doi: 10.3389/frsip.2023.1197619.
2. **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.
3. **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, doi: 10.1007/978-981-16-4016-2_15.
4. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu, "Entropy-Based Characterization of the Transient Phenomena—Systemic Approach", *Mathematics*, 2021, doi: 10.3390/math9060648.
5. Angela Digulescu; Cristina Despina-Stoian; Florin Popescu; **Denis Stanescu**; Dragoș Nastasiu; Dragoș Sburlan, "UWB Sensing for UAV and Human Comparative Movement Characterization", *Sensors*, 23, 1956, 2023, doi: 10.3390/s23041956.
6. 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.

D. Articole în conferințe internaționale:

1. **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.
2. **Denis Stanescu**, Angela Digulescu, Cornel Ioana, Alexandru Serbanescu,

- "Transient power grid phenomena classification based on phase diagram features and machine learning classifiers", 30th European Signal Processing Conference (EUSIPCO), 2 September, Belgrade, 2022, doi: 10.23919/EUSIPCO55093.2022.9909687.
3. **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.
 4. **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.
 5. **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.
 6. **Denis Stanescu**, Dragoş 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.
 7. **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.
 8. Răzvan Scripcaru, Dragoş Nastasiu, Angela Digulescu, **Denis Stănescu**, Cornel Ioana and Alexandru Şerbănescu, "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.

E. Alte lucrări

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

