

List of publications

1. PhD Thesis

Angela Digulescu “*Characterization of Dynamic Phenomena Based on the Signal Analysis in Phase Diagram Representation Domain*”, Doctorate Degree of **University of Grenoble** Doctoral School for Electronics, Power Systems, Automatic Control and Signal Processing Specialization: Signal, Image, Speech, Telecommunications and the PhD Degree in Technical Sciences of **Military Technical Academy of Bucharest** Faculty of Military Electronic and Informatics Systems Specialization: Electronic Engineering and Telecommunications. Thesis directed by Cornel Ioana and Alexandru Șerbănescu.

2. Patents and filed software

[P1] Ioana C., Digulescu A., Stanescu D., *ACTIS - ACtive investigation of Transient using Interferences Sensing*, Declaration of invention reference B38558FR sent on 02/01/2024

[P2] Ioana C., Digulescu A., *Dispositif et système de tomographie des poumons et procédé de tomographie associé*, Patent number: B04845 FR, 03/17/2023

[AAP1] Ioana C., Digulescu A., Stanescu D., Sarbu A., *AIMED – Automatic Identification of Modulations using Entropy in phase Diagrams*, Version 1, 14 novembre 2023

[AAP2] Ioana C., Digulescu A., *SOFIUS- Software for Flexible Imaging using UltraSounds*, APP Reference: FR.001.230040.000.S.0.2022.000.20900, June 10, 2022.

3. Research reports

[R1] Digulescu, A., & Despina-Stoian, C. (2021). *Study on trends in the evolution of mobile communications network architecture in 5G technology for military applications*. Military Technical Academy Ferdinand I.

[R2] Ioana, C., & Digulescu, A. (2020). *Système d’intelligence artificielle pour l’analyse automatique pour le diagnostic des servomoteurs*. GIPSA-Lab, Université Grenoble Alpes.

[R3] Ioana, C., Digulescu, A., & Candel, I. (2015). *Localisation d’arcs électriques par le concept ARC LOCATOR*. GIPSA-Lab, Université Grenoble Alpes.

[R4] Ioana, C., & Digulescu, A. (2014). *Systèmes acoustiques d’écoute passive en milieu sous-aquatique*. GIPSA-Lab, Université Grenoble Alpes.

[R5] Ioana, C., Petrut, T., & Digulescu, A. (2014). *Système de capteurs distribués pour la détection, localisation et la classification pour la surveillance de l’environnement*. GIPSA-Lab, Université Grenoble Alpes.

4. Books and book chapters

[B1] Nastasiu D., Digulescu A., *Comunicații wireless - îndrumar de laborator*, București : Editura Academiei Tehnice Militare, 2025, Cod CNCIS 158, ISBN 978-973-640-359-0

[B2] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2022). On the Existing and New Potential Methods for Partial Discharge Source Monitoring in Electrical Power Grids. In Y.-D. Zhang, T. Senjyu, C. So-In, & A. Joshi (Eds.), *Smart Trends in Computing and*

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Communications (Vol. 286, pp. 155–166). Springer Singapore. https://doi.org/10.1007/978-981-16-4016-2_15

[B3] A. Digulescu-Popescu, Analiza Semnalelor Tranzitorii utilizând Metoda Recurențelor, București : Editura Academiei Tehnice Militare Ferdinand I, 2020, Cod CNCIS 158, ISBN 978-973-640-317-0

[B4] P. Ciotirnae, C.I. Rincu, A. Digulescu-Popescu, Sisteme de comutație și transport de bandă largă, București : Editura Academiei Tehnice Militare, 2017, Cod CNCIS 158, ISBN 978-973-640-266-1

[B5] Bernard, C., Digulescu, A., Girard, A., & Ioana, C. (2016). Multi-lag Phase Diagram Analysis for Transient Signal Characterization. In C. L. Webber, C. Ioana, & N. Marwan (Eds.), Recurrence Plots and Their Quantifications: Expanding Horizons (Vol. 180, pp. 39–63). Springer International Publishing. https://doi.org/10.1007/978-3-319-29922-8_3

[B6] Digulescu, A., Murgan, I., Ioana, C., Candel, I., & Serbanescu, A. (2016). Applications of Transient Signal Analysis Using the Concept of Recurrence Plot Analysis. In C. L. Webber, C. Ioana, & N. Marwan (Eds.), Recurrence Plots and Their Quantifications: Expanding Horizons (Vol. 180, pp. 19–38). Springer International Publishing. https://doi.org/10.1007/978-3-319-29922-8_2

[B7] A. Digulescu Popescu, Îndrumar de laborator la cursul de "Circuite integrate analogice", București : Editura Academiei Tehnice Militare, 2016, Cod CNCIS 158, ISBN 978-973-640-254-8

[B8] Ioana, C., Digulescu, A., Serbanescu, A., Candel, I., & Birleanu, F.-M. (2014). Recent Advances in Non-stationary Signal Processing Based on the Concept of Recurrence Plot Analysis. In N. Marwan, M. Riley, A. Giuliani, & C. L. Webber, (Eds.), Translational Recurrences (Vol. 103, pp. 75–93). Springer International Publishing. https://doi.org/10.1007/978-3-319-09531-8_5

5. Journal articles

[J1] Nastasiu D., Stanescu D.; Digulescu A.; Ioana C.; Despina-Stoian C., “Early Fault Indicator Through Continuous Surveillance of Transient Phenomena in Power Grid Systems”, *IET Smart Grid*, vol. 8, no. 1, p. e12187, Jan. 2025, doi: [10.1049/stg2.70024](https://doi.org/10.1049/stg2.70024)

[J2] 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*, vol. 8, no. 1, p. e12187, Jan. 2025, doi: [10.1049/stg2.12187](https://doi.org/10.1049/stg2.12187).

[J3] Demeslay C., Gautier R., Rostaing P., Digulescu A., Despina-Stoian C. and Burel G., “A PAPR correction scheme for LoRa self-jamming waveforms,” *IET Communications*, vol. 18, no. 19, pp. 1588–1603, Dec. 2024, doi: [10.1049/cmu2.12854](https://doi.org/10.1049/cmu2.12854).

[J4] Sârbu A., Papa R., Digulescu A. and Ioana C., “A Software-Defined Radio Platform for Teaching Beamforming Principles,” *Applied Sciences*, vol. 14, no. 22, p. 10386, Nov. 2024, doi: [10.3390/app142210386](https://doi.org/10.3390/app142210386).

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- [J5] Nati M., Despina-Stoian C., Nastasiu, D., Stanescu D., Digulescu A., Ioana C. and Nanchen V., “Non-Intrusive Continuous Monitoring of Leaks for an In-Service Penstock,” *Sensors*, vol. 24, no. 16, p. 5182, Aug. 2024, doi: [10.3390/s24165182](https://doi.org/10.3390/s24165182).
- [J6] 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. <https://doi.org/10.3389/frsip.2023.1197590>
- [J7] Digulescu, A., Despina-Stoian, C., Popescu, F., Stanescu, D., Nastasiu, D., & Sburlan, D. (2023). UWB Sensing for UAV and Human Comparative Movement Characterization. *Sensors*, 23(4), 1956. <https://doi.org/10.3390/s23041956>
- [J8] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2023). Spread spectrum modulation recognition based on phase diagram entropy. *Frontiers in Signal Processing*, 3, 1197619. <https://doi.org/10.3389/frsip.2023.1197619>
- [J9] Stanescu, D., Nastasiu, D., Ioana, C., & Digulescu, A. (2023). Characterization of digital modulations using the phase diagram analysis. *The European Physical Journal Special Topics*, 232(1), 187–199. <https://doi.org/10.1140/epjs/s11734-022-00744-x>
- [J10] Voicu, D., Stoica, R. M., Vilău, R., Marinescu, M., Digulescu, A., Despina-Stoian, C., & Popescu, F. (2023). Frequency Analysis of Vibrations in Terms of Human Exposure While Driving Military Armoured Personnel Carriers and Logistic Transportation Vehicles. *Electronics*, 12(14), 3152. <https://doi.org/10.3390/electronics12143152>
- [J11] Despina-Stoian, C., Youssef, R., Digulescu, A., Radoi, E., Gautier, R., & Serbanescu, A. (2022). Widely-Linear Digital Self-Interference Cancellation in Full-Duplex USRP Transceiver. *Sensors*, 22(24), 9607. <https://doi.org/10.3390/s22249607>
- [J12] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2021). Entropy-Based Characterization of the Transient Phenomena—Systemic Approach. *Mathematics*, 9(6), 648. <https://doi.org/10.3390/math9060648>
- [J13] Digulescu, A., Despina-Stoian, C., Stănescu, D., Popescu, F., Enache, F., Ioana, C., Rădoi, E., Rîncu, I., & Șerbănescu, A. (2020). New Approach of UAV Movement Detection and Characterization Using Advanced Signal Processing Methods Based on UWB Sensing. *Sensors*, 20(20), 5904. <https://doi.org/10.3390/s20205904>
- [J14] Nastasiu, D., Scripcaru, R., Digulescu, A., Ioana, C., De Amorim, R., Barbot, N., Siragusa, R., Perret, E., & Popescu, F. (2020). A New Method of Secure Authentication Based on Electromagnetic Signatures of Chipless RFID Tags and Machine Learning Approaches. *Sensors*, 20(21), 6385. <https://doi.org/10.3390/s20216385>
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Fi Communication Devices. *International Journal of Environmental Research and Public Health*, 17(23), 8837. <https://doi.org/10.3390/ijerph17238837>

[J16] Digulescu, A., Ioana, C., & Serbanescu, A. (2019). Phase Diagram-Based Sensing with Adaptive Waveform Design and Recurrent States Quantification for the Instantaneous Frequency Law Tracking. *Sensors*, 19(11), 2434. <https://doi.org/10.3390/s19112434>

[J17] Serbanescu, A., Ioana, C., & Digulescu, A. (2018). OVERVIEW OF OUR RECENT RESULTS IN SIGNAL ANALYSIS USING RECURRENCE PLOTS. *REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, EDITURA ACAD ROMANE*, 63(2), 172–177. http://revue.elth.pub.ro/upload/76931810_ASerbanescu_2_2018_pp_172-177.pdf

[J18] Larose, E., Obermann, A., Digulescu, A., Planès, T., Chaix, J.-F., Mazerolle, F., & Moreau, G. (2015). Locating and characterizing a crack in concrete with diffuse ultrasound: A four-point bending test. *The Journal of the Acoustical Society of America*, 138(1), 232–241. <https://doi.org/10.1121/1.4922330>

6. International conferences

[C1] Nati M., Digulescu A., Ioana C., Badina C., Fortes Patella R, Maruzwski P., „Ultrasonic Detection of Erosive Cavitation in Hydraulic Turbines”, IOP Conference Series: Earth and Environmental Science, Volume 1561, The 10th IAHR Workgroup Meeting on Cavitation and Dynamic Problems in Hydraulic Machinery and Systems 01/10/2025 - 03/10/2025 Brno, Czechia, doi: [10.1088/1755-1315/1561/1/012010](https://doi.org/10.1088/1755-1315/1561/1/012010).

[C2] Stanescu D., Ioana C., Digulescu A., Sarbu A., „Power grid predictive monitoring through continuous surveillance of transient phenomena”, CIGRE 2025 International Symposium Palais des congrès de Montréal, Canada • September 29 to October 3, 2025.

[C3] Nastasiu D., Despina-Stoian C., Digulescu A., Ioana C. and Stanescu D., “Movement characterization of multirotor UAV based on their acoustic signature,” in *2024 15th International Conference on Communications (COMM)*, Bucharest, Romania: IEEE, Oct. 2024, pp. 1–5. doi: [10.1109/COMM62355.2024.10741485](https://doi.org/10.1109/COMM62355.2024.10741485).

[C4] Nati M., Nastasiu D., Stanescu D., Digulescu A. and Ioana C., “Pipe Leaks Detection and Localization using Non-Intrusive Acoustic Monitoring,” in *2024 15th International Conference on Communications (COMM)*, Bucharest, Romania: IEEE, Oct. 2024, pp. 1–5. doi: [10.1109/COMM62355.2024.10741455](https://doi.org/10.1109/COMM62355.2024.10741455).

[C5] Ioana C., Stanescu D., Nastasiu D., Despina C. and Digulescu A., “Signal Processing using Phase Diagram Analysis - New Perspectives in Understanding Transient Features in Data Science,” in *2024 15th International Conference on Communications (COMM)*, Bucharest, Romania: IEEE, Oct. 2024, pp. 1–8. doi: [10.1109/COMM62355.2024.10741482](https://doi.org/10.1109/COMM62355.2024.10741482).

[C6] Stanescu, D., Digulescu, A., Ioana, C., & Candel, I. (2023). Early-Warning Indicators of Power Cable Weaknesses for Offshore Wind Farms. *OCEANS 2023 - MTS/IEEE U.S. Gulf Coast*, 1–6. <https://doi.org/10.23919/OCEANS52994.2023.10337375>

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- [C8] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2022a). Modulation Recognition of Underwater Acoustic Communication Signals Based on Phase Diagram Entropy. *OCEANS 2022*, Hampton Roads, 1–7. <https://doi.org/10.1109/OCEANS47191.2022.9977145>
- [C9] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2022b). Transient power grid phenomena classification based on phase diagram features and machine learning classifiers. *2022 30th European Signal Processing Conference (EUSIPCO)*, 1676–1680. <https://doi.org/10.23919/EUSIPCO55093.2022.9909687>
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- [C11] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2021a). 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)*, 299–304. <https://doi.org/10.1109/COMCAS52219.2021.9629068>
- [C12] Stanescu, D., Digulescu, A., Ioana, C., & Serbanescu, A. (2021b). Low complexity acoustic positioning imaging system of underwater objects. *OCEANS 2021: San Diego – Porto*, 1–5. <https://doi.org/10.23919/OCEANS44145.2021.9705913>
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- [C14] Despina-Stoian, C., Digulescu-Popescu, A., Alexandra, S., Youssef, R., & Radoi, E. (2020). Comparison of Adaptive Filtering Strategies for Self-Interference Cancellation in LTE Communication Systems. *2020 13th International Conference on Communications (COMM)*, 73–76. <https://doi.org/10.1109/COMM48946.2020.9141965>
- [C15] Scripcaru, R., Nastasiu, D., Digulescu, A., Stanescu, D., Ioana, C., & Serbanescu, A. (2020). On the potential of phase diagram analysis to identify the wide band modulations. *2020 13th International Conference on Communications (COMM)*, 55–58. <https://doi.org/10.1109/COMM48946.2020.9141963>
- [C16] Stanescu, D., Digulescu, A., Serbanescu, A., & Ioana, C. (2019). High rate acoustic imagery for underwater object classification in dynamic configuration. *OCEANS 2019 MTS/IEEE SEATTLE*, 1–4. <https://doi.org/10.23919/OCEANS40490.2019.8962880>

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- [C22] Digulescu, A., Vasile, C., Ioana, C., Serbanescu, A., Vasile, G., & Mars, J. (2017). Instantaneous frequency law tracking using signal's representation in phase diagram domain. *2017 22nd International Conference on Digital Signal Processing (DSP)*, 1–5. <https://doi.org/10.1109/ICDSP.2017.8096152>
- [C23] Murgan, I., Digulescu, A., Candel, I., Ioana, C., Culea-Florescu, A., & Serbanescu, A. (2017, September 18). Multimodal sensing of erosive cavitation phenomena. *OCEANS 2017 - Anchorage*. OCEANS-IEEE, Anchorage, AK, USA. <https://ieeexplore.ieee.org/document/8232124>
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