

Angela-Manuela DIGULESCU - POPESCU

Personal details



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12 May 1987



Bumbesti-Jiu, Romania

Languages

Romanian ●●●●●

French ●●●●●

English ●●●●●

Education

Habilitation to supervise research activities in Electronic Engineering, Telecommunications and Information Technologies 2025 - Present

Military Technical Academy "Ferdinand I", Bucharest

PhD thesis on advanced algorithms for non-stationary signal analysis 2013 - 2017

Universite Grenoble Alpes, Grenoble

<https://tel.archives-ouvertes.fr/tel-01483499v2/document>

Master's Degree in Mobile Communications 2011 - 2013

University POLITEHNICA of Bucharest, Bucharest

Faculty of Electronics, Telecommunications and Information Technology

Engineering degree 2006 - 2010

Military Technical Academy "Ferdinand I", Bucharest

Faculty of Military Electronic and Information Systems

High School Diploma 2002 - 2006

"Mihai Viteazul" Military College, Alba-Iulia

Various courses/seminars organized by the "Mihai Viteazul" Military College for the National Mathematics Olympiads and Competitions

Employment

Vice Dean for Education at the Faculty of Communications and Electronic Systems for Defense and Security 2023 - Present

Military Technical Academy "Ferdinand I", Bucharest

Associate professor at the Department of Communications and Information Technology, Faculty of Communications and Electronic Systems for Defense and Security 2021 - Present

Military Technical Academy "Ferdinand I", Bucharest

Assistant professor at the Department of Communications and Information Technology, Faculty of Communications and Electronic Systems for Defense and Security 2017 - 2021

Military Technical Academy "Ferdinand I", Bucharest

• Teaching assistant and PhD student at the Department of Communications and Military Electronic Systems, Faculty of Military Electronic and Information Systems 2013 - 2017

Military Technical Academy "Ferdinand I", Bucharest

PhD student 2013 - 2017

GIPSA-lab, Grenoble

Teaching assistant at the Department of Communications and Military Electronic Systems, Faculty of Military Electronic and 2010 - 2013

Internships

Research Intern

Oct 2013 - Feb 2014

EDF R&D - Chatou Site, STEP Department, Chatou

Topic: "Detection, localization and quantification of flaws under low pressure difference".

Research Intern

Mar 2013 - Jun 2013

GIPSA-lab, INP Grenoble, Grenoble

Topic: "Localization System of Acoustic Transient Sources".

Erasmus Research Intern

Apr 2010 - Jun 2010

GIPSA-lab, INP Grenoble, Grenoble

Topic: "Non invasive analysis of fluid flows in closed pipelines".

Erasmus Research Intern

Apr 2009 - Jun 2009

GIPSA-lab, INP Grenoble, Grenoble

Topic: "Non invasive analysis of fluid flows in closed pipelines".

Project list

- G2Elab, MIAI, GIPSA-Lab - Classification des transitoires électriques à l'aide de l'IA | Project responsible - Principal Investigator (2024-2025)
- Bpifrance, Altrans Energies, Gipsa-Lab, Linksum - GOLTEN : Global Localization of Transient phenomena in Electrical Networks | Project director (2021-2024)
- Executive Agency for Higher Education, Research, Development and Innovation Funding - IDENEO : Identification of unusual behavior of people in video streams | Member (2021-2023)
- Direction Générale de l'Armement, France, GIPSA-lab, IRENAV, LAB-STICC - ENSTA - StCyber : Multilayer Analog Digital System for Cyberdefence & Radio Surveillance | Member (2019-2023)
- EDF - Division Technique Générale Grenoble : Système Intelligence Artificielle pour la classification des fonctionnements des machines à partir des transitoires électriques | Project responsible - Principal Investigator (2018-2019)
- Institut Carnot LSI - UTHIM : Ultrasonic Tomography for Hydro Instationarities Monitoring | Member (2017)
- SATT Linksum - MOTHRYs : Système de monitoring des transitoires hydrauliques | Member (2016-2018)
- SATT Linksum - TRANSLOCATOR : Localisation des sources de transitoires électriques | Member (2013-2016)
- FUI Tennerdis et Minalogic C-S, C-S, EDF, CEA LETI, CYBERIO, ATIM - Smart Hydro Monitoring, méthodes multi-capteurs pour la mesure précise des profils de vitesse d'écoulement | Member (2012-2016)

- EDF, CG38, CYBERIO - Systèmes acoustiques d'écoute passive en milieu sous-aquatique et aérien | Project responsable - Principal Investigator (2011-2015)
- Institut Carnot « Energies du Futur », G2Elab, CEA - Localisation d'arcs électriques – ARC LOCATOR | Member (2011-2015)

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

Publications

1. Book chapters

- [B1] 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 Communications* (Vol. 286, pp. 155-166). Springer Singapore. https://doi.org/10.1007/978-981-16-4016-2_15
- [B2] 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
- [B3] 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
- [B4] 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

2. 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:

[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).

[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., & Şerbănescu, 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>

[J15] Sârbu, A., Miclăuș, S., Digulescu, A., & Bechet, P. (2020). Comparative Analysis of User Exposure to the Electromagnetic Radiation Emitted by the Fourth and Fifth Generations of Wi-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>

3. 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.

[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>

[C7] Nastasiu, D., [Digulescu, A.](#), Ioana, C., Bernier, M., Garet, F., & Serbanescu, A. (2022). A novel machine learning approach in Image Pattern Recognition under invariance constraints. *2022 30th European Signal Processing Conference (EUSIPCO)*, 558-562. <https://doi.org/10.23919/EUSIPCO55093.2022.9909907>

[C8] Stanescu, D., [Digulescu, A.](#), Ioana, C., & Serbanescu, A. (2022a). Modulation Recognition of Underwater Acoustic Communication Signals Based on Phase Diagram Entropy. *OCEANS2022, 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>

[C10] Despina-Stoian, C., Youssef, R., [Digulescu, A.](#), Radoi, E., Popescu, F., Serbanescu, A., & Gautier, R. (2021). USRP Experimental Approach for Digital Self-Interference Cancellation in Full-Duplex Communications. *2021 International Conference on Advanced Technologies for Communications (ATC)*, 232-236. <https://doi.org/10.1109/ATC52653.2021.9598203>

[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>

[C13] Stanescu, D., Nastasiu, D., Ioana, C., [Digulescu, A.](#), & Serbanescu, A. (2021). Low Complexity Acoustic Imaging System Based on Time of Arrivals Dynamic Estimation. *2021 10th Mediterranean Conference on Embedded Computing (MECO)*, 1-4. <https://doi.org/10.1109/MECO52532.2021.9460241>

[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>

[C17] Digulescu, A., Ioana, C., Candel, I., & Serbanescu, A. (2018a). Exploring the Properties of the Phase Diagram Domain for the Instantaneous Frequency Law Estimation. *2018 41st International Conference on Telecommunications and Signal Processing (TSP)*, 1-5. <https://doi.org/10.1109/TSP.2018.8441292>

[C18] Digulescu, A., Ioana, C., Candel, I., & Serbanescu, A. (2018b). On the Recognitions Capabilities of Modulated Signals in Phase Diagram Domain. *2018 International Conference on Communications (COMM)*, 177-180. <https://doi.org/10.1109/ICComm.2018.8484754>

[C19] Digulescu, A., Serbanescu, A., Candel, I., & Ioana, C. (2018). On the extension of acoustic flow metering devices to monitor underwater transient phenomena. *OCEANS 2018 MTS/IEEE Charleston*, 1-4. <https://doi.org/10.1109/OCEANS.2018.8604694>

[C20] Rosu, G., Digulescu, A., Candel, I., Serbanescu, A., Culea-Florescu, A., Carmina Rau, M., & Baltag, O. (2018). The MCG Filtering Based on the Phase Diagram Representation Domain. *2018 International Conference on Communications (COMM)*, 55-60. <https://doi.org/10.1109/ICComm.2018.8484760>

[C21] Digulescu, A., Candel, I., & Ioana, C. (2017). Time of flight estimation in multi-path dispersive configuration using compressive sensing reconstruction in the warped domain. *2017 5th International Symposium on Electrical and Electronics Engineering (ISEEE)*, 1-6. <https://doi.org/10.1109/ISEEE.2017.8170703>

[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>

[C24] Sandu, A., Digulescu, A., Ioana, C., Candel, I., Serbanescu, A., & Ciotirnae, P. (2017, September 18). Underwater acoustic object imaging using spatial matched filtering. *OCEANS2017-Anchorage*. OCEANS-IEE, Anchorage, AK, USA. <https://ieeexplore.ieee.org/document/8232128>

[C25] Vasile, C., Digulescu, A., & Ioana, C. (2017). Electrical fault characterization by Hough transform of phase diagram information. *2017 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS)*, 1-4. <https://doi.org/10.1109/COMCAS.2017.8244792>

[C26] Digulescu, A., Ioana, C., Bunea, F., Nedelcu, A., Candel, I., Vasile, G., & Serbanescu, A. (2016). Cavitation characterization using wide band signals in an acoustic active sensing system. *OCEANS2016MTS/IEEE Monterey*, 1-5. <https://doi.org/10.1109/OCEANS2016MTS/IEEE.2016.7811111>

[C27] [Digulescu, A.](#), Murgan, I., Candel, I., Bunea, F., Ciocan, G., Bucur, D. M., Dunca, G., Ioana, C., Vasile, G., & Serbanescu, A. (2016). Cavitating vortex characterization based on acoustic signal detection. *IOP Conference Series: Earth and Environmental Science*, 49, 082009. <https://doi.org/10.1088/1755-1315/49/8/082009>

[C28] Murgan, I., Candel, I., Ioana, C., [Digulescu, A.](#), Bunea, F., Ciocan, G. D., Anghel, A., & Vasile, G. (2016). Flow velocity profiling using acoustic time of flight flow metering based on wide band signals and adaptive beam-forming techniques. *IOP Conference Series: Earth and Environmental Science*, 49, 062003. <https://doi.org/10.1088/1755-1315/49/6/062003>

[C29] Murgan, I., [Digulescu, A.](#), Candel, I., & Ioana, C. (2016). Compensation of position offset of acoustic transducers using compressive sensing concept. *OCEANS 2016 MTS/IEEE Monterey*, 1-4. <https://doi.org/10.1109/OCEANS.2016.7761083>

[C30] Vasile, C., Ioana, C., [Digulescu, A.](#), & Candel, I. (2016). Electromagnetic and acoustic bimodality for the detection and localization of electrical arc faults (M. Vladescu, R. Tamas, & I. Cristea, Eds.; p. 1001004). <https://doi.org/10.1117/12.2246132>

[C31] [Digulescu, A.](#), Bernard, C., Lungu, E., Candel, I., & Ioana, C. (2015). High-speed sensing for object detection in underwater bi-static acoustic paths. *OCEANS 2015 - MTS/IEEE Washington*, 1-4. <https://doi.org/10.23919/OCEANS.2015.7401962>

[C32] [Digulescu, A.](#), Bernard, C., Lungu, E., Candel, I., Ioana, C., & Vasile, G. (2015). Transient signal characterization using multi-lag phase space analysis. *2015 IEEE International Conference on Microwaves, Communications, Antennas and Electronic Systems (COMCAS)*, 1-5. <https://doi.org/10.1109/COMCAS.2015.7360411>

[C33] [Digulescu, A.](#), Candel, I., Ioana, C., Vasile, G., Dunca, G., Bucur, D. M., & Serbanescu, A. (2015). Water hammer effect characterization using an acoustic signal processing approach. *2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, 5-8. <https://doi.org/10.1109/ATEE.2015.7133666>

[C34] Ioana, C., Candel, I., & [Digulescu-Popescu, A.](#) (2015). Distributed array of cooperating acoustic sensors using local time-frequency coherence analysis. *OCEANS 2015 - MTS/IEEE Washington*, 1-4. <https://doi.org/10.23919/OCEANS.2015.7401923>

[C35] Paun, M., [Digulescu, A.](#), Tamas, R., & Ioana, C. (2015). Electric arc localization based on antenna arrays and MUSIC direction of arrival estimation (I. Cristea, M. Vladescu, & R. Tamas, Eds.; p. 925830). <https://doi.org/10.1117/12.2070485>

[C36] Serbanescu, A., Diaconu, A.-V., Ioana, C., & [Digulescu, A.](#) (2015). Between two engineering ages: Of information and complex systems, professional research is based on a team work! *2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, P-1-P-4. <https://doi.org/10.1109/ECAI.2015.7301136>

[C37] Candel, I., Digulescu, A., Ioana, C., & Vasile, G. (2014, September 1). Adaptive waveforms for flow velocity estimation using acoustic signals. *2014 PROCEEDINGS OF THE 22ND EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO)*. 2014 22nd European Signal Processing Conference (EUSIPCO), Lisbon, Portugal. <https://ieeexplore.ieee.org/document/6952213>

[C38] Digulescu, A., Candel, I., Ioana, C., Bucur, D., & Petrut, T. (2014). Underwater object tracking using time frequency signatures of acoustic signals. *OCEANS 2014 - TAIPEI*, 1-5. <https://doi.org/10.1109/OCEANS-TAIPEI.2014.6964296>

[C39] Digulescu, A., Paun, M., Vasile, C., Petrut, T., Deacu, D., Ioana, C., & Tamas, R. (2014). Electrical arc surveillance and localization system based on advanced signal processing techniques. *2014 IEEE International Energy Conference (ENERGYCON)*, 426-430. <https://doi.org/10.1109/ENERGYCON.2014.6850462>

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