

Curriculum Vitae

Name: Angela-Manuela DIGULESCU - POPESCU
Date of birth: 12 May 1987
Place of birth: Bumbesti-Jiu, Romania
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Education:

2025: *Military Technical Academy “Ferdinand I” of Bucharest, Romania.*

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

2013 - 2017: *Universite Grenoble Alpes, France.*

Military Technical Academy of Bucharest, Romania.

- PhD thesis on advanced algorithms for non-stationary signal analysis:
<https://tel.archives-ouvertes.fr/tel-01483499v2/document>

2011-2013: *University POLITEHNICA of Bucharest, Romania.*

- Master degree, *Mobile Communications* master program at the *Faculty of Electronics, Telecommunications and Information Technology.*

2006-2010: *Military Technical Academy of Bucharest, Romania.*

- Engineering degree from the *Faculty of Military Electronic and Information Systems.*

2002-2006: “Mihai Viteazul” Military College, Alba-Iulia, Romania.

- Various courses/seminars organized by the “Mihai Viteazul” Military College for the National Mathematics Olympiads and Competitions.

Employment

2023-present

- Vice Dean for Education at the *Faculty of Communications and Electronic Systems for Defense and Security, Military Technical Academy “Ferdinand I”, Bucharest.*

2021 – present

- Associate professor at the *Department of Communications and Information Technology, Faculty of Communications and Electronic Systems for Defense and Security, Military Technical Academy “Ferdinand I”, Bucharest.*

2017 – 2021

- Assistant professor at the *Department of Communications and Information Technology, Faculty of Communications and Electronic Systems for Defense and Security, Military Technical Academy “Ferdinand I”, Bucharest.*

2013-2017

- Teaching assistant and PhD student at the *Department of Communications and Military Electronic Systems, Faculty of Military Electronic and Information Systems, Military Technical Academy of Bucharest.*
- PhD student at *GIPSA-lab, Universite Grenoble Alpes, France.*

2010-2013

- Teaching assistant at the *Department of Communications and Military Electronic Systems, Faculty of Military Electronic and Information Systems, Military Technical Academy of Bucharest.*

Awards and achievements:

2008: Special award at the “Traian Lalescu” National Mathematics Competition.

2007: Bronze medal at the South Eastern European Mathematical Olympiad for University Students with International Participation (SEEMOUS) from Cyprus.

2006: Special award at the “Marian Tarina” National Competition (Mathematics).

2005: Second award at the “Marian Tarina” National Competition (Mathematics).

2004: Second award at the “Marian Tarina” National Competition (Mathematics).

Experience

October 2013 – February 2014

- Research internship at EDF R&D Chatou Site, STEP Department on the topic: “Detection, localization and quantification of flaws under low pressure difference”.

March 2013 – June 2013

- Research internship for the dissertation thesis completion at GIPSA-lab, INP Grenoble on the topic: “Localization system of acoustic transitory sources”.

April 2010 – June 2010

- Erasmus scholarship for the Bachelor thesis completion at GIPSA-lab, INP Grenoble on the topic: “Non invasive analysis of fluid flows in closed pipelines”.

April 2009 – June 2009

- Erasmus scholarship at GIPSA-lab, INP Grenoble on the topic: “Non invasive analysis of fluid flows in closed pipelines”.



Research project list

Financing institution/ <i>Collaborators</i>	Project title/ <i>Role</i>	Period/ <i>Funding</i>
G2Elab (Grenoble Genie Electrique), <i>G2Elab, MIAI (Multidisciplinary Institute in Artificial intelligence), GIPSA-Lab (Grenoble Image Parole Signal Automatique Laboratoire)</i>	Classification des transitoires électriques à l'aide de l'IA <i>Project responsible - Principal Investigator</i>	2024-2025 <i>48 000 €</i>
Bpifrance, Altrans Energies, Gipsa-Lab, Linksum	GOLTEN - GLObal Localization of Transient phenomena in Electrical Networks <i>Project director</i>	2021-2024 <i>350 000 €</i>
Executive Agency for Higher Education, Research, Development and Innovation Funding - Romania	IDENEO- Identification of unusual behavior of people in video streams <i>Member</i>	2021-2023
Direction Générale de l'Armement, France, GIPSA-lab, IRENAV, LAB-STICC – ENSTA	StCyber - Multilayer Analog Digital System for Cyberdefence & Radio Surveillance <i>Member</i>	2019-2023
EDF - Division Technique Générale Grenoble - France	Système Intelligence Artificielle pour la classification des fonctionnements des machines à partir des transitoires électriques <i>Project responsible - Principal Investigator</i>	2018-2019 <i>96 000 €</i>
Institut Carnot LSI - France	UTHIM – Ultrasonic Tomography for Hydro Installation Monitoring <i>Member</i>	2017
SATT Linksum - France	MOTHRYS : Système de monitoring des transitoires hydrauliques <i>Member</i>	2016-2018
SATT Linksum - France	TRANSLOCATOR : Localisation des sources de transitoires électriques <i>Member</i>	2013-2016
FUI Tennerdis et Minalogic C-S ; <i>Partners : C-S, EDF, CEA LETI, CYBERIO, ATIM - France</i>	Smart Hydro Monitoring, méthodes multi-capteurs pour la mesure précise des profils de vitesse d'écoulement <i>Member</i>	2012-2016

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Financing institution/ Collaborators	Project title/ Role	Period/ Funding
EDF, CG38, CYBERIO - France	Systèmes acoustiques d'écoute passive en milieu sous-aquatique et aérien <i>Project responsable - Principal Investigator</i>	2011-2015 84 000 €
Institut Carnot « Energies du Futur », G2Elab, CEA - France	Localisation d'arcs électriques – ARC LOCATOR <i>Member</i>	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.

PhD students co-supervision

Student name	PhD thesis title	Period	Graduation university
Denis Stănescu	Transient Signal Analysis in the Context of Wide Band Propagation Environments	2019-2023	Joint PhD thesis with the University of Grenoble Alpes, France and the Military Technical Academy “Ferdinand I” of Bucharest, Romania
Cristina Despina-Stoian	Self-Interference Cancellation Approaches for In-Band Full Duplex Communications using Sdr Platforms	2020-2023	Joint PhD thesis with the University of Bretagne Occidentale, France and the Military Technical Academy “Ferdinand I” of Bucharest, Romania
Dragos Nastasiu	Development of Novel Non-Invasive Methods for Identification and Authentication in THz Domain	2020-2024	Joint PhD thesis with the University of Savoie Mont Blanc, France and the Military Technical Academy “Ferdinand I” of Bucharest, Romania

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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: 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).

[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

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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., Miclăuş, 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*

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[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. *OCEANS 2022*, Hampton Roads, 1–7. <https://doi.org/10.1109/OCEANS47191.2022.9977145>

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- [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>

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- [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. *OCEANS 2017 - Anchorage*. OCEANS-IEEE, 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. *OCEANS 2016 MTS/IEEE Monterey*, 1–5. <https://doi.org/10.1109/OCEANS.2016.7761114>
- [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>

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- [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>
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5. Disertation Thesis

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6. 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.

Languages

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