

LISTA DE LUCRĂRI
Conf. Dr. Ing. Anamaria RĂDOI

I. TEZA (E) DE DOCTORAT (T)

A. Rădoi, "Information Theoretical Methods for Understanding Multi-dimensional Signals: Application to Multispectral and Multitemporal Data Interpretation.", 2015, University Politehnica of Bucharest

II. CĂRȚI / CAPITOLE PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

Ca1. A. Rădoi, "*Information theory and coding: from theory to applications.*", Ed. Matrix Rom, 164 pag., Bucharest, Romania, 2018, ISBN 978-606-25-0433-5 [Cod CNCISIS: 39]

Ca2. A. Rădoi, B. C. Florea, D. A. Stoichescu, "*Teoria Transmisiunii Informației – Indrumar de laborator*", PRINTECH Publishing House, 121 pag., Bucharest, Romania, 2014, ISBN 978-606-23-0279-5 [Cod CNCISIS 54]

Ca3. B. Florea, **A. Rădoi**, D. A. Stoichescu, "*Information Transmission Theory – Laboratory*", PRINTECH Publishing House, 121 pag., Bucharest, Romania, 2014, ISBN 978-606-23-0297-9 [Cod CNCISIS 54]

Cb - Cărți /capitole de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb1. A. Rădoi, "Tehnici Statistice de Analiză a Datelor", Ed. Matrix Rom, 98 pag., Bucharest, Romania, 2023, ISBN 978-606-25-0788-6 [Cod CNCISIS: 39]

Cb2. A. Florescu, C. Oros and **A. Rădoi**, „*Engine Knock Detection Based on Computational Intelligence Methods*”, „Fuzzy Logic - Algorithms, Techniques and Implementations”, pp. 211 – 238, Chapter 11, Prof. Elmer Dadios (Ed.), ISBN: 978-953-51-0393-6, InTech, DOI: 10.5772/37726, 2012.

III. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului

Ris1. A. Rădoi, "*Generative Adversarial Networks Under CutMix Transformations for Multimodal Change Detection*," in IEEE Geoscience and Remote Sensing Letters, vol. 19, pp. 1-5, 2022, Art no. 2506905, doi: 10.1109/LGRS.2022.3201003, WOS:000850868700004 [Impact Factor 5.343, **ISI Q1** / categoria Science - Engineering, Electrical & Electronic]

Ris2. A. Rădoi, "*Multimodal Satellite Image Time Series Analysis Using GAN-Based Domain Translation and Matrix Profile*", Remote Sens. 2022, 14, 3734, doi: 10.3390/rs14153734. WOS:000839832900001 [Impact Factor 5.349, **ISI Q1** /

- categoria Imaging Science & Photographic Technology, categoria Geoscience & Multidisciplinary]
- Ris3.** A. Rădoi, A. Birhala, N. -C. Ristea and L. -C. Dutu, "An End-To-End Emotion Recognition Framework Based on Temporal Aggregation of Multimodal Information," in IEEE Access, vol. 9, pp. 135559-135570, 2021, doi: 10.1109/ACCESS.2021.3116530, WOS:000704822700001 [Impact Factor: 3.476, ISI Q2 / categoria Science - Engineering, Electrical & Electronic]
- Ris4.** N. -C. Ristea and A. Rădoi, "Complex Neural Networks for Estimating Epicentral Distance, Depth, and Magnitude of Seismic Waves," in IEEE Geoscience and Remote Sensing Letters, doi: 10.1109/LGRS.2021.3059422, WOS:000732142700001 [Impact Factor 5.343, ISI Q1 / categoria Science - Engineering, Electrical & Electronic]
- Ris5.** A. Rădoi and M. Datcu, "Multilabel Annotation of Multispectral Remote Sensing Images using Error-Correcting Output Codes and Most Ambiguous Examples," in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 12, no. 7, pp. 2121-2134, July 2019, ISSN 1939-1404. doi: 10.1109/JSTARS.2019.2916838; WOS:000480354800012 [Impact Factor 4.715, ISI Q1 / categoria Geography Physical, ISI Q2 / categoria Science - Engineering, Electrical & Electronic]
- Ris6.** Bănică, M.V., Rădoi, A., Pârnu, P.V. "Onboard visual tracking for UAV's". Scientific Journal of Silesian University of Technology. Series Transport. 2019, 105, 35-48. ISSN: 0209-3324. DOI: <https://doi.org/10.20858/sjsutst.2019.105.4>, WOS:000513766500004
- Ris7.** A. Rădoi, C. Burileanu, "Retrieval of Similar Evolution Patterns from Satellite Image Time Series", MDPI Applied Sciences, Vol. 8, 2018, 21 pag., <https://doi.org/10.3390/app8122435>, EISSN 2076-3417, WOS:000455145000103 [Impact Factor 2.838, ISI Q2 / categoria Engineering & Multidisciplinary]
- Ris8.** A. Rădoi, "Unsupervised Change Detection in Multispectral Satellite Images Using Optimal Thresholding Techniques", UPB Scientific Bulletin, Series C, Vol. 79, Issue 3, pp. 45 - 58, ISSN 2286-3540, Sept. 2017; WOS:000411060700004
- Ris9.** A. Rădoi, M. Datcu, „Automatic Change Analysis in Satellite Images Using Binary Descriptors and Lloyd-Max Quantization," IEEE Geoscience and Remote Sensing Letters, vol. 12, no. 6, pp.1223-1227, June 2015, ISSN: 1545-598X, eISSN: 1558-0571, WOS:000352571800013, DOI: 10.1109/LGRS.2015.2389144, WOS:000352571800013 [Impact Factor 5.343, ISI Q1 / categoria Science - Engineering, Electrical & Electronic]
- Ris10.** A. Rădoi, D. A. Stoichescu, „Pedestrian and Object Detection Using Learned Convolutional Filters", Scientific Bulletin of UPB, Series C - Electrical Engineering, Vol. 77, Iss. 2, pp. 161 – 172, ISSN 2286-3540, June 2015;
- Ris11.** Florescu, C. Oros, A. Rădoi, „Comparison Among Computational Intelligence Methods For Engine Knock Detection. Part 2", Revue Romaine Des Sciences Techniques, ISSN 0035-4066, Tome 57, No. 1, p. 80 - 89, Bucharest, 2012, WOS:000303096800009, IF = 1.114
- Ris12.** A. Rădoi, V. Lăzărescu, A. Florescu, „Wavelet Analysis To Detect The Knock On Internal Combustion Engines", Revue Romaine Des Sciences Techniques, ISSN 0035 – 4066, Tome 54, Issue 3, p. 301– 310, Bucharest, 2009, WOS:000269812800008, IF = 1.114
- Ris13.** S. Segărceanu, T. Zaharia, A. Rădoi, „Speaker Verification Using GMM Modelling", Scientific Bulletin of UPB, Series C - Electrical Engineering , Vol. 76, No. 2, pp. 117 – 130, ISSN 2286 – 3540, 2014. (BDI - Scopus)

- Ris14.** Savu, A. **Rădoi**, A. Florescu, „*Transformer Analysis for Wireless Power DC-DC Converters*”, International Review of Electrical Engineering (IREE), Praise Worthy Prize Ed., ISSN 1827-6679, Vol. 9, No. 1, pp. 26 – 35, 2014. (BDI - Scopus)
- Ris15.** Savu, A. Florescu, A. **Rădoi**, M. Teodorescu, „*A Novel Approach in Designing an Integrated Transformer LLC Resonant Converter*”, International Review of Electrical Engineering (IREE), Praise Worthy Prize Ed., ISSN 1827 - 6660, Vol. 8, No. 2, pp. 586-594, 2013. (BDI - Scopus)

Rio – Alte reviste de specialitate de circulație internațională.

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului

- Vis1.** A. **Rădoi** and M. Ünsalan, "Convolutional Neural Network-Based Fractal Coding Method for Image Translation in Multimodal Change Detection," IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium, 2022, pp. 1063-1066, doi: 10.1109/IGARSS46834.2022.9884513. WOS:000920916601076
- Vis2.** A. Chirtu, N. -C. Ristea and A. **Rădoi**, "Convolutional Transformers for Aerial Image Classification: a General to Specific Learning Curve," IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium, 2022, pp. 659-662, doi: 10.1109/IGARSS46834.2022.9884876. WOS:000920916600162
- Vis3.** M. -A. Chirtu and A. **Rădoi**, "Seismic Signal Denoising using U-Net in the Time-Frequency Domain," 2022 45th International Conference on Telecommunications and Signal Processing (TSP), 2022, pp. 6-10, doi: 10.1109/TSP55681.2022.9851325.
- Vis4.** A. **Rădoi**, "Convolutional Autoencoder-Based Image Reconstruction for Unsupervised Multimodal Change Detection," 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS, 2021, pp. 4372-4375, ISSN 2153-7003, doi: 10.1109/IGARSS47720.2021.9553400.
- Vis5.** M. Unsalan, A. **Rădoi** and M. Datcu, "SAR Image Classification Using Mixed Spatial-Spectral Information and Pre-trained Convolutional Neural Networks," 2022 14th International Conference on Communications (COMM), 2022, pp. 1-6, doi: 10.1109/COMM54429.2022.9817330.
- Vis6.** A. Birhala, C. N. Ristea, A. **Rădoi** and L. C. Dutu, "Temporal aggregation of audio-visual modalities for emotion recognition," 2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 305-308, ISBN 978-1-7281-6377-2, doi: 10.1109/TSP49548.2020.9163474, WOS:000577106400065
- Vis7.** C. Andronache, M. Negru, A. Neacsu, G. Cioroiu, A. **Rădoi** and C. Burileanu, "Towards extending real-time EMG-based gesture recognition system," 2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 301-304, ISBN 978-1-7281-6377-2, doi: 10.1109/TSP49548.2020.9163481, WOS:000577106400064
- Vis8.** M. Barbu, A. **Rădoi** and G. Suci, "Landslide Monitoring using Convolutional Autoencoders," 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2020, pp. 1-6, ISBN 978-1-7281-6844-9, doi: 10.1109/ECAI50035.2020.9223121, WOS:000627393500003
- Vis9.** A. Neacsu, G. Cioroiu, A. **Rădoi**, C. Burileanu, Automatic EMG-based Hand Gesture Recognition System using Time-Domain Descriptors and Fully-Connected Neural Networks, 42nd International Conference on Telecommunications and

- Signal Processing (TSP), 2019, pp. 232-235, ISBN:978-1-7281-1864-2, doi 10.1109/TSP.2019.8768831, WOS:000493442800051
- Vis10.** N. Ristea, L. C. Duțu and **A. Rădoi**, "Emotion Recognition System from Speech and Visual Information based on Convolutional Neural Networks," 2019 International Conference on Speech Technology and Human-Computer Dialogue (SpeD), Timisoara, Romania, 2019, pp. 1-6, doi: 10.1109/SPED.2019.8906538, WOS:000571718700005
- Vis11.** **A. Rădoi** and C. Burileanu, "*Query-by-Example Retrieval in Satellite Image Time Series*," 2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 2018, pp. 1-5, doi: 10.1109/TSP.2018.8441223, WOS:000454845100176
- Vis12.** A. Gaiță, G. Nicolae, **A. Rădoi** and C. Burileanu, "*Chainsaw Sound Detection Based on Spectral Haar Coefficients*," 2018 International Symposium ELMAR, Zadar, Croatia, 2018, pp. 139-142. doi: 10.23919/ELMAR.2018.8534594, WOS:000454262700032
- Vis13.** G. Nicolae, A. Gaiță, **A. Rădoi** and C. Burileanu, "*A Method for Chainsaw Sound Detection Based on Haar-like Features*," 2018 41st International Conference on Telecommunications and Signal Processing (TSP), Athens, Greece, 2018, pp. 1-5, doi: 10.1109/TSP.2018.8441379, WOS:000454845100160
- Vis14.** **A. Rădoi**, M. Datcu, "*Bag-of-Visual Words and Error-Correcting Output Codes for Multilabel Classification of Remote Sensing Images*", International Geoscience and Remote Sensing Symposium IGARSS 2018, Valencia, Spain, 2018, pp. 6955-6958. doi: 10.1109/IGARSS.2018.8519432, WOS:000451039806176
- Vis15.** **A. Rădoi**, "*Semantic Segmentation of RGB-NIR Images with Error-Correcting Output Codes*," 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018, pp. 135-138, doi: 10.1109/ICComm.2018.8430118, WOS:000449526000024
- Vis16.** **A. Rădoi** and C. Burileanu, "*Infant Cry Classification Using Compression-Based Similarity Metric*," 2018 International Conference on Communications (COMM), Bucharest, 2018, pp. 67-70, doi: 10.1109/ICComm.2018.8453632, WOS:000449526000011
- Vis17.** AC. Grivei, **A. Rădoi** and M. Datcu, "*Land cover change detection in Satellite Image Time Series using an active learning method*," 2017 9th International Workshop on the Analysis of Multitemporal Remote Sensing Images (MultiTemp), Brugge, 2017, pp. 1-4, doi: 10.1109/Multi-Temp.2017.8035213; ISBN 978-1-5386-3327-4, WOS:000427092400017
- Vis18.** AC. Grivei, **A. Rădoi**, C. Văduva, M. Datcu, "*An Active-Learning approach to the query by example retrieval in remote sensing images*", IEEE International Conference on Communications (COMM), pp. 377-380, DOI: 10.1109/ICComm.2016.7528339, ISBN: 978-1-4673-8197-0, 2016 (WOS:000383221900078)
- Vis19.** RM. Coliban, **A. Rădoi**, M. Ivanovici, "*A color and multispectral fractal model for forest region identification in satellite images*", IEEE International Conference on Communications (COMM), pp. 377-380, DOI: 10.1109/ICComm.2016.7528263, ISBN: 978-1-4673-8197-0, 2016 (WOS:000383221900079)
- Vis20.** **A. Rădoi**, M. Datcu, "*Spatio-Temporal Characterization in Satellite Image Time Series*," IEEE 8th International Workshop on the Analysis of Multitemporal Remote Sensing Images (Multi-Temp), pp.1-4, doi: 10.1109/Multi-Temp.2015.7245805, ISBN: 978-1-4673-7119-3, Annecy, France, 2015

(WOS:000380400100060)

- Vis21.** A. Rădoi, Radu Tanase and Mihai Datcu., "*Semantic Interpretation of Multi-level Change Detection in Multi-Temporal Satellite Images*", International Geoscience and Remote Sensing Symposium IGARSS 2015, pp. 4157 – 4160, Milano, Italy, 2015, DOI: 10.1109/IGARSS.2015.7326741, ISBN:978-1-4799-7929-5, ISSN: 2153-6996, WOS:000371696704060
- Vis22.** R. Tănase, A. Rădoi, M. Datcu, D. Răducănu, "*Polarimetric SAR Data Feature Selection Using Measures of Mutual Information*", International Geoscience and Remote Sensing Symposium IGARSS 2015, pp. 1140 – 1143, Milano, Italy, 2015, DOI: 10.1109/IGARSS.2015.7325972, ISBN:978-1-4799-7929-5, ISSN: 2153-6996, WOS:000371696701065
- Vis23.** A. Florescu, A. Rădoi, C. Rădoi, D. N. Vizireanu, "*Three Dual Switching Power Supplies Modules*", CAS 2008 Proceedings, International Semiconductor Conference, 31st Edition, vol. 2, p. 331 – 334, IEEE Catalog No. CFP08CAS – PRT, ISBN 978-1-4244-2004-9, Sinaia, Romania, 2008, WOS:000267590800068.
- Vis24.** A. Rădoi, M. Datcu, „*SAR Imagery from the Perspective of Multiscale Chirplet Transform*”, EUSAR 2012, 9th European Conference on Synthetic Aperture Radar, pp. 187 – 190, ISBN 978-3-8007-3404-7, Nuremberg, Germany, 2012. (BDI – IEEE Xplore)

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

- Vi1.** R. Tănase, A. Rădoi, C. Văduva and M. Datcu, "*An Assessment of Similarity Measures for CBIR Systems*", Proceedings of the 2016 conference on Big Data from Space (BiDS 2016); Publications Office of the European Union, ISBN 978-92-79-56980-7, ISSN 1831-9424, DOI:10.2788/854791, Tenerife, Spain
- Vi2.** A. Rădoi, R. Tanase and M. Datcu, "*Change Maps for Pairs Of Images Extracted From Satellite Image Time Series*", Proceedings of the 2014 conference on Big Data from Space (BiDS 2014); Publications Office of the European Union, ISBN 978-92-79-43252-1, ISSN 1831-9424, DOI: 10.2788/182, 2014::11, pp. 132 – 135, Frascati, Italy
- Vi3.** R. Tănase, A. Rădoi, F. A. Georgescu, M. Datcu and D. Raducănu, "*Using Biquaternions Algebra And Joint Time Frequency Analysis Towards A New Polsar Data Indexing Method*", Proceedings of the 2014 conference on Big Data from Space (BiDS 2014); Publications Office of the European Union, ISBN 978-92-79-43252-1, ISSN 1831-9424, DOI: 10.2788/1823, 2014::11, pp. 50 – 53, Frascati, Italy
- Vi4.** A. Rădoi, M. Datcu, „*Learned Atoms from Multi-spectral Satellite Image Time Series*”, ESA-EUSC-JRC Conference Proceedings - 9th Conference on Image Information Mining Conference: The Sentinels Era, pp. 71 – 75, ISBN 978-92-79-36160-9, ISSN 1831-9424, DOI 10.2788/25852, Bucharest, Romania, 2014.
- Vi5.** A. Rădoi, V. Lăzărescu, A. Florescu, „*Wavelet Analysis To Detect The Knock On Internal Combustion Engines*”, National Symposium of Theoretical Electrotehnique, SNET 2008, ISBN 978-606-521-045-5, pp. 335 – 340, Bucharest, Romania, 2008.

IV. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pn** – nationale, **Pi** - internationale).

- Pn1.** **Director:** Iunie 2022 - Iunie 2024: MES-ER Multimodal Embedded System for Emotion Recognition, cod proiect PN-III-P2-2.1-PED-2021-3486, 682PED/2022 (funded by UEFISCDI)

- Pn2. Responsabil UPB:** Sept. 2021 - Sept. 2023: BDAGeoINT Transformarea unui volum masiv de date și informații geospațiale în intelligence acționabil, cod proiect PN-III-P2-2.1-SOL-2021-0084, 31SOL/2021 (funded by UEFISCDI)
- Pn3. Director:** Sept. 2020 - Sept. 2022: MDM-SITS Multimodal Data Mining in Satellite Image Time Series, cod proiect PN-III-P1-1.1-PD-2019-0843, PD132/2020 (funded by UEFISCDI)
- Pn4. Director:** September 2017 – September 2018, “Analiza nesupervizata a evoluțiilor temporale” (NEST), UPB GEX 32/2017
- Pn5. Membru echipa cercetare:** October 2017 – Present, “Platforme UAV (vehicule aeriene fără pilot uman) cu capabilități dedicate și infrastructură suport, pentru aplicații în misiuni de securitate națională”, PN-III-P2-2.1-SOL-2016-02-0001, 1 SOL/2017
- Pn6. Membru echipa cercetare:** May 2017 – Present, “Sisteme și Platformă Inteligență de Analiză Video și Audio” (SPIA-VA), PN-III-P2-2.1-SOL-2016-02-0002, 2 SOL/2017
- Pn7. Membru echipa cercetare:** Jan. 2014 – Sept. 2015, “Long-Term Exploitation of Satellite Image Time Series” (LEO-SITS), C1 Star Project under the Romanian Space Agency, ID 187
- Pn8. Membru echipa cercetare:** Sept. 2013 – Sept. 2015, “Thz-Imaging”, C1 Star Project under the Romanian Space Agency, joint with National Institute for Laser, Plasma and Radiation Physics INFLP, ID 153

- Pi1. Membru și Key-person echipa cercetare:** Feb. 2015 – Feb. 2017, “Data Mining For Analysis and Exploitation of Next Generation of Time Series” (DAMATS), European Space Agency project in consortium with Terrasigna Romania company and EOX Austria company

v. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

- E1. A. Rădoi, M. Datcu,** „A L2-Norm Regularized Pseudo-Code for Change Analysis in Satellite Image Time Series”, First International Workshop on Learning over Multiple Contexts (LMCE) jointly held with the ECML – PKDD conference, Nancy, France, 2014.
- E2. C. Vaduva, A. Rădoi, A. Grivei, G. Schwarz, M. Datcu,** “Urban Mapping using Satellite Time Series”, Mapping Urban Areas from Space Conference, MUAS 2015, 4-5 November 2015, Frascati, Italy
- E3. A. Rădoi, C. Văduva, M. Datcu,** "Satellite Image Time Series Analysis using Dynamic Time Warping and Latent Dirichlet Allocation", Conference Image Information Mining: Earth Observation meets Multimedia – IIMC 2015, 29 – 30 October 2015, Bucharest, Romania
- E4. A. Rădoi,** “Information theoretical methods for understanding multidimensional signals: application on multispectral and multitemporal Earth Observation data interpretation”, Scientific Session under the Doctoral Project KNOWLEDGE 134398, UPB Library, Bucharest, Romania, October 2014.
- E5. A. Rădoi,** “Chirplet transform. Applications.”, poster la CUSO Winter School 2013 on Computational Photography and Display, Lenk, Switzerland, 2013.