Universitatea Tehnică din Cluj-Napoca
Facultatea de Electronică, Telecomunicaţii şi Tehnologia Informaţiei
Departamentul de Electronică Aplicată
Sl.dr.ing. Stefania Ramona Benea

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Research and contributions to texture classification using classical machine learning and deep learning-based techniques”
Conducător ştiinţific : Prof.dr.ing. Romulus Terebes
Domeniul Inginerie electronică, telecomunicații și tehnologii informaționale
Universitatea Tehnica din Cluj-Napoca
Susţinere publică: *23.09.2022.*

B – Cărţi şi capitole în cărţi publicate

CĂRŢI

1. Monica Borda, Romulus Terebes, Raul Malutan, Ioana Ilea, Mihaela Cislariu, Andreia Miclea, Stefania Barburiceanu, “Randomness and Elements of Decision Theory Applied to Signals”, Springer Cham, 2021, Hardcover ISBN: 978-3-030-90313-8, DOI: 10.1007/978-3-030-90314-5.

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate în reviste de specialitate de circulaţie internaţională recunoscute (cotate ISI)

1. Barburiceanu, Stefania; Terebes, Romulus; Meza, Serban. 2021. "3D Texture Feature Extraction and Classification Using GLCM and LBP-Based Descriptors" *Appl. Sci.* 11, no. 5: 2332. DOI: 10.3390/app11052332, WOS:000627990600001, [WOS], [Scopus].
2. S. Barburiceanu, S. Meza, B. Orza, R. Malutan and R. Terebes, "Convolutional Neural Networks for Texture Feature Extraction. Applications to Leaf Disease Classification in Precision Agriculture," in IEEE Access, vol. 9, pp. 160085-160103, 2021, DOI: 10.1109/ACCESS.2021.3131002, WOS: 000728916800001, [WOS], [IEEE].
3. S. Barburiceanu, R. Terebes and S. Meza - Improved 3D Co-Occurrence Matrix for Texture Description and Classification, International Symposium on Electronics and Telecommunications 2020 (ISETC), Timisoara, Romania, pp. 245-248, DOI: 10.1109/ISETC50328.2020.9301123, ISBN:978-1-7281-9514-8, WOS:000612681000059 [IEEE], [WOS], [Scopus].
4. S. Barburiceanu, R. Terebes and S. Meza - Hyperspectral Image Classification using the MRELBP Texture Descriptor, 2019 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2019, pp. 1-6, DOI: 10.1109/EHB47216.2019.8969874, WOS:000558648300006, ISBN:978-1-7281-2604-3, [IEEE], [Scopus], [WOS].

5. S. R. Barburiceanu, S. Meza, C. Germain and R. Terebes - An Improved Feature Extraction Method for Texture Classification with Increased Noise Robustness, 2019 27th European Signal Processing Conference (EUSIPCO), A Coruna, Spain, 2019, pp. 1-5.
   DOI: 10.23919/EUSIPCO.2019.8902765, WOS:000604567700199, ISBN:978-1-5386-7300-3, [IEEE], [Scopus], [DBLP], [WOS].
6. S. Barburiceanu, R. Terebes and S. Meza - Grape Leaf Disease Classification using LBP-derived Texture Operators and Colour, 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2020, pp. 1-6, DOI:10.1109/AQTR49680.2020.9130019, WOS:000643732600004, ISBN:978-1-7281-7167-8, [IEEE], [Scopus], [WOS].
7. S. Barburiceanu, R. Terebes and S. Meza - 3D Texture Feature Extraction and Classification using the BM3DELBP approach, 2020 IEEE 16th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, pp. 465-471, DOI: 10.1109/ICCP51029.2020.9266264, WOS:000646618600059, ISBN:978-1-7281-9081-5, [IEEE], [Scopus], [WOS].

c2) Studii publicate la conferinţe indexate în baze de date internaţionale de referinţă în domeniul ..... (DBLP, ACM, IEEE, SCOPUS)[1]

8. Stefania Barburiceanu, Romulus Terebes, „Plant Disease Classification Using Texture And Colour”, Acta Technica Napocensis Electronics And Telecommunications, vol.61, no.1, pp. 21-28, 2021, ISSN: 1221-6542, [ProQuest].
9. Stefania Barburiceanu, Romulus Terebes, “Feature Extraction Methods Based on Deep-Learning Approaches. Application To Automatic Diagnosis of Breast Cancer”, vol. 62, no. 1, pp. 11-16, 2022, ISSN: 1221-6542, [ProQuest].
10. Stefania Barburiceanu, Andreia Miclea, Romulus Terebes, “Deep Learning Strategies Based On Fine-Tuning. Application To Medical Image Classification”, vol. 62, no. 2, pp. 7-12, 2022, ISSN: 1221-6542, [ProQuest].
11. S. Barburiceanu, Romulus Terebeș, “Automatic detection of melanoma by deep learning models-based feature extraction and fine-tuning strategy,” IOP Conference Series: Materials Science and Engineering, vol. 1254, no. 1, p. 012035, September 2022, DOI: 10.1088/1757-899X/1254/1/012035, [ProQuest].
12. R. Malutan, A. V. Miclea, S. Barburiceanu and D. T. Oltean, "Data Analytics of Gait Monitoring from Parkinson's Disease Patients," 2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4, doi: 10.1109/EHB55594.2022.9991434. [IEEE].
13. Alexandru-Octavian Bogeanu-Popa, Ștefania Benea, Romulus Terebes, “Evaluating BiLSTM and Clip Encoders for Resource-Constrained Text-to-Image Generation Using GANs”, vol. 66, no.1, pp.1-6, 2026, ISSN: 1221-6542, [ProQuest].

[1] indexate în:
[IEEE] - IEEE Xplore (http://ieeexplore.ieee.org/Xplore/guesthome.jsp)
[ACM] - ACM portal (http://portal.acm.org)
[DBLP] - (http://www.informatik.uni-trier.de)
[SCOPUS] - (http://www.scopus.com)

14. Tudor G. Pascaru, Cosmin Strilețchi, Ștefania Benea, “Speech-Based Parkinson’s Disease Detection Using Wav2Vec2-BERT Feature Extraction”, vol. 66, no.1, pp.21-27, 2026, ISSN: 1221-6542, [ProQuest].

D – Lucrări publicate în ultimii 10 ani în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. 1. S. Barburiceanu, R. Terebes, “Colour texture classification using improved noise robust LBP descriptors”, Novice Insights in Electronics and Telecommunications, Student Symposium on Electronics and Telecommunications UTCN, 2019, pp. 105-106, ISSN: 1842-6085.
2. S. Barburiceanu, “Texture classification system using mobile devices”, Novice Insights in Electronics and Telecommunications, Student Symposium on Electronics and Telecommunications UTCN, 2016, pp. 9-16, ISSN: 1842-6085.
3. Stefania Barburiceanu, “Feature extraction methods for the classification of grape leaves”, Agriculture and Food – current future challenges, AGRIFA, 22-23rd of October 2020.

Data
22.10.2026

Semnătura