Universitatea Tehnică din Cluj-Napoca
Facultatea de Electronică, Telecomunicaţii şi Tehnologia Informaţiei
Departamentul de Comunicaţii
Conf. dr. ing. GORDAN Mihaela-Laura

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Aplicaţii ale tehnicilor fuzzy şi maşinilor cu vectori suport în prelucrarea imaginilor”
Conducător ştiinţific : Prof.dr.ing.Costin Miron
Domeniul Inginerie Electronică şi Telecomunicaţii
Universitatea Tehnică din Cluj-Napoca
Susţinere publică: *9 iulie 2004.*

B – Cărţi şi capitole în cărţi publicate

CĂRŢI

1. **Mihaela Gordan -** *Sisteme de analiză a imaginilor digitale folosind clasificatoare maşini cu vectori suport*, Ed. Casa Cărţii de Ştiinţă, Cluj-Napoca, 2006, ISBN 973-686-867-2, 183 pagini
2. **Mihaela Gordan**, C. Miron, G. Oltean - *Sisteme Fuzzy. Îndrumător de laborator* , Ed. Casa Cărţii de Ştiinţă, Cluj-Napoca, 1999, ISBN 973-686-003-5, 85 pagini
3. Mihaela Cîşlariu, **Mihaela Gordan** - *L'encodage et la compression des images et des séquences vidéo- illustre par des applications*, Ed. U.T.Press, 2016, Cluj-Napoca, ISBN: 978- 606-737-161-1
4. Emilia Şipoş, G. Oltean, C. Miron, Laura Ivanciu, **Mihaela Gordan** - *Fundamental Electronic Circuits. Laboratory Manual*, Ed. U.T.Press, Cluj-Napoca, 2009, ISBN 978-973-662-503-9, 91 pagini
5. Emilia Şipoş, G. Oltean, C. Miron, Laura Ivanciu, **Mihaela Gordan** - *Circuite electronice fundamentale. Îndrumător de laborator*, Ed. U.T.Press, Cluj-Napoca, 2009, ISBN 978-973-662-502-2, 97 pagini
6. B. Orza, A. Vlaicu, Camelia Popa (Florea), **Mihaela Gordan** - *Viziunea computerizată în exemple şi aplicaţii practice*, Ed. U.T.Pres, Cluj-Napoca, 2007, ISBN 978-973-662-294-6, 160 pagini
7. Lelia Feştilă, **Mihaela Gordan**, Mihaela Cîrlugea, G. Oltean, S. Hintea, G. Csipkes, C. Rus, R. Groza, L. Szolga - *Circuite analogice pentru clasificatoare maşini cu vectori suport*, Ed. Casa Cărţii de Ştiinţă, Cluj-Napoca, 2007, ISBN 978-973-133-107-2, 168 pagini
8. G. Oltean, **Mihaela Gordan**, C. Miron, Emilia Şipoş, M. Crasi - *Laboratory Manual for Electronic Devices and Circuits. Electronic Devices*, Ed. U. T. Press, Cluj-Napoca, 2004, ISBN 973-662-071-9, 112 pagini
9. G. Oltean, **Mihaela Gordan**, C. Miron, Emilia Şipoş, M. Crasi - *Laboratory Manual for Electronic Devices and Circuits. Electronic Circuits*, Ed. U. T. Press, Cluj-Napoca, 2004, ISBN 973-662-072-7, 104 pagini

10. C. Miron, G. Oltean, **Mihaela Gordan** - *Dispozitive şi circuite electronice. Culegere de probleme*, Ed. Casa Cărţii de Ştiinţă, Cluj-Napoca,1999, ISBN 973-686-014-0, 68 pagini

CAPITOLE DE CARTE

1. Camelia Florea, Aurel Vlaicu, **Mihaela Gordan**, Bogdan Orza. *Adaptive Implementation of Nonlinear Fuzzy Image Enhancement Algorithms in the Compressed JPEG Images*, in *Advances in Computer Science and IT*, D M Akbar Hussain (Ed.), InTech, 2009, pag. 145-170, ISBN: 978-953-7619-51-0 (Available from: http://www.intechopen.com/books/advances-in-computer-science-and-it/adaptive-implementation-of-nonlinear-fuzzy-image-enhancement-algorithms-in-the-compressed-jpeg-image)
2. **Mihaela Gordan**, Ovidiu Dancea, Mihaela Cislariu, Ioan Stoian, Aurel Vlaicu. *Fuzzy Image Processing, Analysis and Visualization Methods for Hydro-Dams and Hydro-Sites Surveillance and Monitoring*, in *Sustainable Natural Resources Management*, Dr. Abiud Kaswamila (Ed.), InTech, 2012, pag. 3-26, ISBN: 978-953-307-670-6 (Available from: https://www.intechopen.com/books/sustainable-natural-resources-management/fuzzy-image-processing-analysis-and-visualization-methods-for-hydro-dams-and-hydro-sites-surveillanc)
3. Paul Nemes, **Mihaela Gordan**, Aurel Vlaicu. *Color Restoration in Cultural Heritage Images Using Support Vector Machines*, in *Scientific Computing and Cultural Heritage - Contributions in Mathematical and Computational Sciences Series*, Bock, Hans Georg, Jäger, Willi, Winckler, Michael J. (Eds.), , Springer Berlin Heidelberg, 2013, pag. 51-59, ISBN 978-3-642-28020-7 (DOI: https://doi.org/10.1007/978-3-642-28021-4_6)**Autor**, Coautori. *Titlu,* Editura, An, paginile, ISBN

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. Georgiana Nagy, Maria Adriana Neag, **Mihaela Gordan**, Doinita Crisan, Petru Adrian Mircea, Romeo Chira. Ultrasound Image Computerized Analysis for Non-invasive Quantitative Evaluation of Hepatic Fibrosis. *The Turkish Journal of Gastroenterology*, Vol. 32, Issue 10, Oct 2021, pp. 888–895, eISSN: 2148-5607, doi: 10.5152/tjg.2021.20951

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

1. A. Petrescu, Ş. -N. Meza and **M. L. Gordan**, "Development of an Independent Polarimetric Payload Module for Terrain Analysis using UAV Platforms," 2026 Advanced Topics on Measurement and Simulation (ATOMS), Cluj-Napoca, Romania, 2026, pp. 1-4, doi: 10.1109/ATOMS69836.2026.11583280 **[IEEE].**

[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)

2. B. Burtea, R. Ş. Simea, C. Florea, **M. Gordan**, G. Oltean and C. Iacobescu, "Patch vs Scene Level Features for Parking Slot Detection under Diverse Weather Conditions," *2026 Advanced Topics on Measurement and Simulation (ATOMS)*, Cluj-Napoca, Romania, 2026, pp. 1-4, doi: 10.1109/ATOMS69836.2026.11583196 **[IEEE].**
3. D. Hada, **M. -L. Gordan** and M. Cislariu, "Adaptive Image Inpainting by Classical and Deep Learning Completion for Digitized Mural Paintings," *2026 Advanced Topics on Measurement and Simulation (ATOMS)*, Cluj-Napoca, Romania, 2026, pp. 1-4, doi: 10.1109/ATOMS69836.2026.11583163 **[IEEE].**
4. M. I. G. Gaura and **M. L. Gordan**, "U-Net Based Retinal Blood Vessel Segmentation Systems Analysis," *2026 30th International Conference on Information Technology (IT)*, Zabljak, Montenegro, 2026, pp. 1-4, doi: 10.1109/IT67293.2026.11435696 **[IEEE]**
5. R. A. Cardoș, M. I. G. Gaură and **M. L. Gordan**, "Domain Shift in Skin Lesion Classification: Quantifying the ISIC 2019 Generalization Gap," *2026 30th International Conference on Information Technology (IT)*, Zabljak, Montenegro, 2026, pp. 1-4, doi: 10.1109/IT67293.2026.11435740 **[IEEE].**
6. A. Petrescu, **M. Gordan**, Ş. -N. Meza and A. -G. Corcheş, "RO-MIL: A Ground-View Military Object Detection Dataset," *2025 33rd Telecommunications Forum (TELFOR)*, Belgrade, Serbia, 2025, pp. 1-4, doi: 10.1109/TELFOR67910.2025.11314364 **[IEEE].**
7. R. Nelega, Z. A. Polgar, G. Kovacs, **M. Gordan** and E. Puschita, "Generation and Deep Learning-Based Classification of RF Signals Represented as I/Q Time Series," *2025 IEEE International Mediterranean Conference on Communications and Networking (MeditCom)*, Nice, France, 2025, pp. 1-6, doi: 10.1109/MeditCom64437.2025.11104449 **[ISI], [IEEE].**
8. A. Iacobescu, G. Oltean, C. Florea, M. Gordan and B. Burtea, "OpenPk: A New Dataset for Parking Space Analysis," *2023 International Conference on Big Data, Knowledge and Control Systems Engineering (BdKCSE)*, Sofia, Bulgaria, 2023, pp. 1-7, doi: 10.1109/BdKCSE59280.2023.10339780 **[IEEE].**
9. Ioan Stoian, Dorina Capatana, Ovidiu Ghiran, **Mihaela Gordan**, Camelia Florea. Fast Alternative to Gradient Computation in the DCT Block Domain for Local Binary Patterns Computation. *Proceeding of 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, 24-26 Mai 2018, Cluj-Napoca, Romania, Accession Number: WOS:000450065900073, ISBN:978-1-5386-2205-6, ISSN: 1844-78721 **[ISI]**, **[IEEE]**.
10. Ioan Stoian, Istvan Kovacs, Sorin Ignat, Ovidiu Ghiran, Gabriel Oltean, **Mihaela Gordan**. Multisensorial Data Fusion and Correlation for Dams Structural Health Monitoring (Multi Scale, Uncertainty-Sensitive Heterogeneous Data Integration). *Proceeding of 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, 24-26 Mai 2018, Cluj-Napoca, Romania, Accession Number: WOS:000450065900019, ISBN:978-1-5386-2205-6, ISSN: 1844-78721 **[ISI]**, **[IEEE]**.
11. Abdou Khadre Diop, Serban Meza, **Mihaela Gordan**, Aurel Vlaicu. LDA based classification of video surveillance sequences using motion information. *Proceedings of the 20th IEEE International Conference on Advanced Communication Technology (ICACT),* 11-14 Februarie 2018, Chuncheon-si Gangwon-do, South Korea, pp. 499-502, eISBN: 979-11-88428-01-4 **[ISI]**, **[IEEE]**.
12. Gabriel Oltean, Laura-Nicoleta Ivanciu, **Mihaela Gordan**, Ioan Stoian, Istvan Kovacs. Predictive model for the horizontal displacement of a dam using autoregressive neural network - *2017 IEEE 21ST INTERNATIONAL CONFERENCE ON INTELLIGENT ENGINEERING SYSTEMS (INES)*, Pages: 33-38, published: 2017, Accession Number: WOS:000418333800005, ISBN:978-1-4799-7677-5, ISSN: 1562-5850 **[ISI]**, **[IEEE]**.

13. **Mihaela Gordan**, Serban Meza, Mihaela Cislariu, Bogdan Orza, Aurel Vlaicu, Dorina Capatina, Ioan Stoian. A Fuzzy Logic Approach for the Fast Approximate Computation of Image Transforms from Block JPEG DCT Coefficients. *Proceeding of 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)*, 19-21 Mai 2016, Cluj-Napoca, Romania, pp. 359-364, eISBN: 978-1-4673-8692-0 **[ISI]**, **[IEEE]**.

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

- Reviste

1. -Mihaela Cislariu, **Mihaela Gordan**, Aurel Vlaicu, Monica Borda. An Adaptive Visual Dictionary Based Approach to Old Film Restoration. *Acta Technica Napocensis Electronics and Telecommunications*, Vol. 57, No. 2, 2016, pp. 15-22, ISSN: 1221-6542

E – Brevete obţinute pentru întreaga activitate

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F – Contracte de cercetare (2021-2026)

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Data
09.10.2026

Semnătura