

## Listă de lucrări

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Teză de doctorat:

*Systems Based on Artificial Intelligence Algorithms for Automatic Processing of Medical Images*, Universitatea din Craiova, domeniul: Ingineria Sistemelor, conducător științific: Prof.univ.dr.ing. Dan SELIȘTEANU susținere publică: 15.05.2023, Ordinul M.E. nr. 6444/ 28.09.2023.

### A. Lucrări în jurnale

1. Adriana Ciocalteu, Cristiana M Urhut, Costin Teodor Streba, Adina Kamal, **Madalin Mamuleanu**, Larisa D Sandulescu, Artificial intelligence in contrast enhanced ultrasound: A new era for liver lesion assessment, World Journal of Gastroenterology, 31, 42, doi: <http://dx.doi.org/10.3748/wjg.v31.i42.112196> , IF: 5.4 Q1
2. Mircea-Sebastian Șerbănescu, Liliana Streba, Alin Dragoș Demetrian, Andreea-Georgiana Gheorghe, **Mădălin Mămuleanu**, Daniel-Nicolae Pirici, Costin-Teodor Streba, Transfer Learning-Based Integration of Dual Imaging Modalities for Enhanced Classification Accuracy in Confocal Laser Endomicroscopy of Lung Cancer, Cancers, 17, 4, 611, <https://doi.org/10.3390/cancers17040611>, IF: 4.4, Q1
3. Ștefan-Vlad Voinea, **Mădălin Mămuleanu**, Rossy Vlăduț Teică, Lucian Mihai Florescu, Dan Selișteanu, Ioana Andreea Gheonea, GPT-Driven Radiology Report Generation with Fine-Tuned Llama 3, Bioengineering 2024, 11, 10, 1043, <https://doi.org/10.3390/bioengineering11101043> , IF: 3.7, Q2
4. Cristina Mihaela Ciofiac, **Mădălin Mămuleanu**, Lucian Mihai Florescu, Ioana Andreea Gheonea, CT Imaging Patterns in Major Histological Types of Lung Cancer, Life 2024, 14, 462. <https://doi.org/10.3390/life14040462>, IF: 3.4, Q1
5. Marinela-Cristiana Urhuț, Larisa Daniela Săndulescu, Costin Teodor Streba, **Mădălin Mămuleanu**, Adriana Ciocâlțeu, Sergiu Marian Cazacu, Suzana Dănoiu, Diagnostic Performance of an Artificial Intelligence Model Based on Contrast-Enhanced Ultrasound in Patients with Liver Lesions: A Comparative Study with Clinicians, Diagnostics 2023, 13, 3387. <https://doi.org/10.3390/diagnostics13213387>, WOS: 001099423800001, IF: 3.3, Q1
6. **Mămuleanu, M.**; Urhuț, C.M.; Săndulescu, L.D.; Kamal, C.; Pătrașcu, A.-M.; Ionescu, A.G.; Șerbănescu, M.-S.; Streba, C.T. An Automated Method for Classifying Liver Lesions in Contrast-Enhanced Ultrasound Imaging Based on Deep Learning Algorithms. Diagnostics 2023, 13, 1062. <https://doi.org/10.3390/diagnostics13061062>, WOS:000958316900001, IF: 3.3, Q1
7. **Mămuleanu, M.**; Urhuț, C.M.; Săndulescu, L.D.; Kamal, C.; Pătrașcu, A.-M.;

- Ionescu, A.G.; Șerbănescu, M.-S.; Streba, C.T. Deep Learning Algorithms in the Automatic Segmentation of Liver Lesions in Ultrasound Investigations. *Life* 2022, 12, 1877. <https://doi.org/10.3390/life12111877>, WOS:000912429400001, IF: 3.4, Q1
8. Florescu, L.M.; Streba, C.T.; Șerbănescu, M.-S.; **Mămuleanu, M.**; Florescu, D.N.; Teică, R.V.; Nica, R.E.; Gheonea, I.A. Federated Learning Approach with Pre-Trained Deep Learning Models for COVID-19 Detection from Unsegmented CT images. *Life* 2022, 12, 958. <https://doi.org/10.3390/life12070958>, WOS:000832422300001, IF: 3.4, Q1
  9. Georgeanu, V.A.; **Mămuleanu, M.**; Ghiea, S.; Selișteanu, D. Malignant Bone Tumors Diagnosis Using Magnetic Resonance Imaging Based on Deep Learning Algorithms. *Medicina* 2022, 58, 636. doi: <https://doi.org/10.3390/medicina58050636>, WOS:000802435900001, IF: 2.4, Q1
  10. Albița Anca, Selișteanu Dan, **Mămuleanu Mădălin**, Monitoring, Recording and Diagnosis Designed Hardware Structure for a Data Acquisition Module Running in Electroenergetic Environment, 2022, Vol. 1, Iss. 1, (May 2022): 5-8
  11. Butaru, A.E.; **Mămuleanu, M.**; Streba, C.T.; Doica, I.P.; Diclescu, M.M.; Gheonea, D.I.; Oancea, C.N. Resource Management through Artificial Intelligence in Screening Programs—Key for the Successful Elimination of Hepatitis C. *Diagnostics* 2022, 12, 346. doi: <https://doi.org/10.3390/diagnostics12020346>, WOS:000764212800001, IF: 3.7, Q1

#### B. Lucrări publicate în conferințe

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3. **M. Mămuleanu**, C. Ionete, A. Albița and D. Selișteanu, "Distributed Deep Learning Model for Predicting the Risk of Diabetes, Trained on Imbalanced Dataset," 2022 23rd International Carpathian Control Conference (ICCC), Sinaia, Romania, 2022, pp. 315-318, doi: 10.1109/ICCC54292.2022.9805989, ISI Proc.
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5. A. Albița, D. Selișteanu and **M. Mămuleanu**, "Using MQTT Protocol for Remote Monitoring of Low and Medium Power Electrical Network," 2021 16th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, 2021, pp. 1-4, doi: 10.1109/EMES52337.2021.9484133, ISI Proc.

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