Agenţia Română de Asigurare a Calităţii în Învăţământul Superior

A N E X A 4 . 1

Universitatea: ***Academia Tehnică Militară „Ferdinand I”***
Facultatea: Facultatea de Sisteme Integrate de Armament, Geniu și Mecatronică
Departament: Departamentul de Inginerie a Sistemelor de Armament și Mecatronică
Conferențiar dr. ing. Cîrneanu Andrada-Livia

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Metode avansate pentru detectarea zonelor de interes din imagini dinamice”, Universitatea Politehnică din București, conducător de doctorat: Prof.dr.ing. Dan Popescu, 2019.

B. Cărţi si capitole în cărţi publicate

1. **Cîrneanu Andrada Livia** „*Utilizarea rețelelor neuronale în sisteme integrate de armament”,* Academia Tehnică Militară, 2024, ISBN 978-973-640-349-1.
2. Cîrmaci-Matei Marius Valeriu, **Cîrneanu Andrada Livia** „*Elemente de bază în analiza sistemelor automate - Îndrumar de laborator”*, Academia Tehnică Militară, 2020, ISBN 978-973-640-307-1.

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

1. **Cirneanu, A.-L**, Moldoveanu, Sava, C.-E, Thomas Leroux, Somoiag, Cirmaci „Artificial neural networks for predicting the ballistic performances during the firing with the infantry weapons”, 2025 IEEE International Workshop on Technologies for Defense and Security (TechDefense 2025) Roma, Italia, - în curs de indexare.
2. Marina Marchisio Conte, Giulia Boetti, Fabio Roman, Enrico Spinello, Nikolaos V. Karadimas, Linko Nikolov, Jaroslaw Zelkowski and **Andrada Livia Cirneanu,** "Empowering Mathematics education in security and defence: technological tools and methodological strategies for motivation enhancement", The 49th IEEE International Conference on Computers, Software, and Applications (COMPSAC 2025), Toronto, Canada, WOS:001575960000017.
3. Marina Marchisio Conte, Giulia Boetti, Fabio Roman, Enrico Spinello, Nikolaos V. Karadimas, Linko Nikolov, Paulina Owczarek and **Andrada Livia Cirneanu,** „Digitally Supported Scenario-Based Learning for Improving Mathematics Education And Perception in Security and Defence”, CELDA, 2025, Porto, Portugal – ***Scopus.***
4. Moldoveanu**, Cirneanu, A.-L**, Sava, Somoiag „Integrating Mathematical Models and Informatics in Military Education: A MATLAB Approach to Exterior Ballistics”, 2025 IEEE International Workshop on Technologies for Defense and Security (TechDefense 2025) Roma, Italia, - în curs de indexare.

5. Miruna-Cristina Andone, Dan Popescu, Loretta Ichim**, Andrada-Livia Cirneanu,** "Deep learning classification of ovarian tumor stage by an ensemble of neural networks", ICSTCC, Cluj-Napoca, **2025.**
6. **Cirneanu, A.-L.;** Moldoveanu, C.-E. Use of Digital Technology in Integrated Mathematics Education. *Appl. Syst. Innov.* 2024, *7*, 66. https://doi.org/10.3390/asi7040066, **Q2**, factor de impact **3,8.**
7. **Cîrneanu, A.-L.;** Popescu, D.; Iordache, D. New Trends in Emotion Recognition Using Image Analysis by Neural Networks, A Systematic Review. Sensors 2023, 23, 7092. https://doi.org/10.3390/s23167092, **Q2**, factor de impact **3,9**.
8. **Cirneanu (Sumalan) Andrada Livia**, Popescu Dan, "Flooded area detection by Gabor filtering based on Convolutional Neural Network", U.P.B. Sci. Bull., Volume: 81, Issue: 1 Pages: 69-80, 2019, WOS:000459478000006, factor de impact **0,3**.
9. **Sumalan Andrada Livia**, Popescu Dan, Ichim Loretta, "People Detection in Video Surveillance", 2018, 10th Edition Electronics, Computers and Artificial Intelligence (ECAI), WOS:000467734100010.
10. **Cirneanu (Sumalan) Andrada Livia**, Popescu Dan, Ichim Loretta, "CNN based on LBP for Evaluating Natural Disasters", 2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV), conferință de **tip A**, WOS:000459847700096.
11. **Sumalan Andrada Livia**, Popescu Dan, Ichim Loretta, "Flooded and vegetation areas detection from UAV images using multiple descriptors", 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), WOS:000427419900073.
12. **Sumalan Andrada**, Popescu Dan, Ichim Loretta, "Flooded area detection using UAV images", 2016 24th Telecommunications Forum (TELFOR), WOS:000393491700086.
13. **Sumalan Andrada Livia**, Popescu Dan, Ichim Loretta, "Flood evaluation in critical areas by UAV surveillance", 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), WOS:000402541200054.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

1. **Andrada Cirneanu**, "Smart video surveillance for background analysis", Proceedings of International Scientific Conference "Defense Technologies", Faculty of Artillery, Air Defense and Communication and Information System, 2018, pp.105-111, ISSN 2367-7902.
2. Cristian-Emil Moldoveanu, Alin-Constantin Sava, **Andrada-Livia Cîrneanu**, Linko Nikolov, Nikolaos Karadimas, Marina Marchisio Conte, Enrico Spinello, Magdalena Rykala, „Digital Mathematics Applied In Defence And Security Education", 2024 International Symposium (ISIM) & International Student Workshop (ISWIM) on Interdisciplinary Mathematics in the CiTi areas.
3. **Andrada L. Cirneanu**, Alin C. Sava, Cristian E. Moldoveanu, Marius V. Cirmaci-Matei, Pamfil Somoiag, Linko Nikolov, Krasimir Slavyanov, "CNN architecture for detection of areas of interest in UAV imagery. a comparative analysis of automated technique", Proceedings of International Scientific Conference "Defense Technologies", Faculty of Artillery, Air Defense and Communication and Information System, 2024, pp.283-292, ISSN 2815-4282.

4. Cristian-Emil Moldoveanu, Pamfil Șomoiag, **Andrada-Livia Cîrneanu**, Alin-Constantin Sava „Digital And Informatics Tools For Ballistics Education”, Proceedings of International Scientific Conference "Defense Technologies" DefTech 2025, Faculty of Artillery, Air Defense and Communication and Information Systems.

E. Brevete obținute în întreaga activitate

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Data: 04.05.2026 **Semnătura:** 