

Emilian RADOI

List of Papers (Personal Contributions)

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Journal Articles

1. Anca Morar, Alin Moldoveanu, Irina Mocanu, Florica Moldoveanu, Emilian Radoi, Victor Asavei, Alexandru Gradinaru, Alex Butean, "A Comprehensive Survey of Indoor Localization Methods Based on Computer Vision", Sensors 2020. [Q2, IF: 3.5]
2. Adrian Cosma, Emilian Radoi, "Wildgait: Learning gait representations from raw surveillance streams", Sensors 2021. [Q2, IF: 3.8]
3. Adrian Cosma, Emilian Radoi, "Learning Gait Representations with Noisy Multi-Task Learning", Sensors 2022. [Q2, IF: 3.9]
4. Adrian Cosma, Andy Catruna, Emilian Radoi, "Exploring Self-Supervised Vision Transformers for Gait Recognition in the Wild", Sensors 2023. [Q2, IF: 3.4]
5. Andy Catruna, Pavel Betiu, Emanuel Tertes, Vladimir Ghita, Emilian Radoi, Irina Mocanu, Mihai Dascalu, "Car Full View Dataset: Fine-Grained Predictions of Car Orientation from Images", Electronics 2023. [Q2, IF: 2.6]

A* and A-Ranked Conference Papers

1. Adrian Cosma, Emilian Radoi, "PsyMo: A Dataset for Estimating Self-Reported Psychological Traits from Gait", IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), IEEE, 2024. [Rank A]
2. Andrei Niculae, Adrian Cosma, Emilian Radoi, "A Retrieval-Based Approach to Medical Procedure Matching in Romanian", BioNLP workshop part of the Annual Meeting of the Association for Computational Linguistics (ACL), 2025. [Rank A*]
3. Adrian Cosma, Ana-Maria Bucur, Emilian Radoi, "RoMath: A Mathematical Reasoning Benchmark in Romanian", MathNLP workshop part of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2025. [Rank A*]
4. Adrian Cosma, Stefan Ruseti, Emilian Radoi, Mihai Dascalu, "The Strawberry Problem: Emergence of Character-level Understanding in Tokenized Language

Models”, Conference on Empirical Methods in Natural Language Processing (EMNLP), 2025. **[Rank A*]**

5. Andrei Niculae, Adrian Cosma, Cosmin Dumitrache, Emilian Radoi, ”Dr.Copilot: A Multi-Agent Prompt Optimized Assistant for Improving Patient-Doctor Communication in Romanian”, Conference on Empirical Methods in Natural Language Processing (EMNLP), 2025. **[Rank A*]**

Other Papers

1. Emilian Radoi, Aditi Shenoy, DK Arvind, ”Evaluation of Routing Protocols for Internet-Enabled Wireless Sensor Networks”, International Conference on Wireless and Mobile Communications (ICWMC), IARIA, 2012.
2. Diana Alexandra Crisan, Emilian Radoi, DK Arvind, ”CoAP-Mediated Hybrid Simulation and Visualisation Environment for Specknets”, ACM SIGSIM Conference on Principles of Advanced Discrete Simulation (PADS), ACM, 2013.
3. Janek Mann, Emilian Radoi, DK Arvind, ”Prospeckz-5 - A Wireless Sensor Platform for Tracking and Monitoring of Wild Horses”, Euromicro Conference on Digital System Design (DSD), IEEE, 2014.
4. Emilian Radoi, Janek Mann, DK Arvind, ”Tracking and Monitoring Horses in the Wild using Wireless Sensor Networks”, International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), IEEE, 2015.
5. Emilian Radoi, Janek Mann, DK Arvind, ”Performance Evaluation of the VBTDMA Protocol for Long-term Tracking and Monitoring of Mobile Entities in the Outdoors”, Proceedings of the 11th ACM Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet), ACM, 2015.
6. Vlad-Adrian Stefanescu, Emilian Radoi, ”Stress Level Prediction Using Data from Wearables”, RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2019.
7. Vlad Pelin, Emilian Radoi, ”PXNOR: Perturbative Binary Neural Network”, RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2019.
8. Emilian Radoi, Dumitru Cirimpei, Valentin Radu, ”Localization Systems Repository: A Platform for Open-source Localization Systems and Datasets”, International Conference on Indoor Positioning and Indoor Navigation (IPIN), IEEE, 2019.

9. Adrian Cosma, Emilian Radoi, Valentin Radu "CamLoc: Pedestrian Location Estimation through Body Pose Estimation on Smart Cameras", International Conference on Indoor Positioning and Indoor Navigation (IPIN), IEEE, 2019.
10. Nicoleta Denisa Bortanoiu, Emilian Radoi, "Mapping Natural Language Questions to Medical Specialties", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2020.
11. Vlad-Adrian Stefanescu, Emilian Radoi, "Autonomous Self-Diagnosis System", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2020.
12. Adrian Cosma, Emilian Radoi, "Multi-Task Learning of Confounding Factors in Pose-Based Gait Recognition", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2020.
13. Andy Catruna, Adrian Cosma, Emilian Radoi, "From Face to Gait: WeaklySupervised Learning of Gender Information from Walking Patterns", International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2021.
14. Catalin Patrascu, Adrian Cosma, Emilian Radoi, "Scalable Deployments for Real-Time AI Video Stream Processing", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2021.
15. Alexandru Marin, Emilian Radoi, "Image-based Fruit Recognition and Classification", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2021.
16. Costin Rachieru, Adrian Cosma, Emilian Radoi, "Bootstrapping Road Sign Detection for Self-Driving Cars using Weakly-Supervised Learning", RoEduNet Conference: Networking in Education and Research (RoEduNet), IEEE, 2021.
17. Adrian Cosma, Emilian Radoi, "GaitMorph: Transforming Gait by Optimally Transporting Discrete Codes", International Joint Conference on Biometrics (IJCB), IEEE, 2023.
18. Andrei Niculae, Andy Catruna, Adrian Cosma, Daniel Rosner, Emilian Radoi, "Gait Recognition from Highly Compressed Videos", International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2024.
19. Radu Chivoreanu, Adrian Cosma, Andy Catruna, Razvan Rughinis, Emilian Radoi, "Aligning Actions and Walking to LLM-Generated Textual Descriptions",

International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2024.

20. Andy Catruna, Adrian Cosma, Emilian Radoi, "CrossGaze: A Strong Method for 3D Gaze Estimation in the Wild", International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2024.
21. Andy Catruna, Adrian Cosma, Emilian Radoi, "GaitPT: Gait Pyramid Transformer for Skeleton-Based Gait Recognition", International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2024.
22. Andy Catruna, Adrian Cosma, Emilian Radoi, "The Paradox of Motion: Evidence for Spurious Correlations in Skeleton-Based Gait Recognition Models", International Conference on Automatic Face and Gesture Recognition (FG), IEEE, 2024.
23. Nicolae Nitu, Andy Catruna, Emilian Radoi, "Romanian Speech-to-Text Transcription for Medical Applications", International Conference on Intelligent Computer Communication and Processing (ICCP), IEEE, 2024.
24. Cristian Constantin, Andy Catruna, Emilian Radoi, "Personalized In-Store Advertising using Deep Learning for Face Analysis and Gaze Estimation", International Conference on Control Systems and Computer Science (CSCS), IEEE, 2025.