

Model F17 - Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC Drd. Ing. Elena-Anca Paraschiv

Studii de doctorat

Perioada: 2021-2025

Conducător științific: Prof.dr.ing. Mihai Ciuc

Domeniu: Inginerie Electronică Telecomunicații și Tehnologii Informaționale

Titlul tezei de doctorat: Abordări Integrate bazate pe Inteligență Artificială pentru Monitorizarea Sănătății Mintale și Vizuale / Integrative AI Approaches for Mental and Visual Health Monitoring

Activitate științifică (se vor lăsa doar cele care se aplică)

A. Lista de lucrări științifice (articole în reviste sau volume)

1. **Elena-Anca Paraschiv**, Lidia Băjenaru, Cristian Petrache, Ovidiu Bica, and Dragoș-Nicolae Nicolau. 2024. "AI-Driven Neuro-Monitoring: Advancing Schizophrenia Detection and Management Through Deep Learning and EEG Analysis" Future Internet 16, no. 11: 424. <https://doi.org/10.3390/fi16110424>. WOS:001365026100001.
2. **Elena-Anca Paraschiv**, Marilena Ianculescu, Adriana Alexandru (2024). Bridging the Gap: Deep Learning EEG-Based Applications for Schizophrenia Classification and Management. In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings, vol 109. Springer, Cham. https://doi.org/10.1007/978-3-031-62502-2_76. WOS:001326807700076.
3. **Elena-Anca Paraschiv**, Alina-Elena Sultana, "Harnessing the power of vision transformers for enhanced OCT image classification", Romanian Journal of Information Technology and Automatic Control, ISSN 1220-1758, vol. 34(2), pp. 97-111, 2024. <https://doi.org/10.33436/v34i2y202408>. WOS:001253386000008.
4. Laura-Ioana Coman, Marilena Ianculescu, **Elena-Anca Paraschiv**, Adriana Alexandru, and Ioana-Anca Bădărău. 2024. "Smart Solutions for Diet-Related Disease Management: Connected Care, Remote Health Monitoring Systems, and Integrated Insights for Advanced Evaluation", Applied Sciences 14, no. 6: 2351. <https://doi.org/10.3390/app14062351>. WOS:001191807000001.
5. **Elena-Anca Paraschiv**, "Applications of Deep Learning algorithms for retinal diseases diagnosis based on Optical Coherence Tomography imaging," 2023 24th International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2023, pp. 594-597, doi: 10.1109/CSCS59211.2023.00099.
6. Marilena Ianculescu, **Elena-Anca Paraschiv**, Adriana Alexandru, "The Potential of the Remote Monitoring Digital Solutions to Sustain the Mental and Emotional Health of the Elderly during and Post COVID-19 Crisis in Romania", Healthcare 11, no. 4: 608. 2023. <https://doi.org/10.3390/healthcare11040608>. WOS:000939108500001.
7. **Elena-Anca Paraschiv**, Marilena Ianculescu, Ovidiu Bica and Alexandru Sipică, "Underpinning Improved Outcomes through Preventative Patient Care Models Based on Remote Monitoring and AI," 2021 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657668. WOS:000802227900128.
8. Marilena Ianculescu, Victor Constantin, **Elena-Anca Paraschiv**, and Adriana Alexandru, "Design and Development of Comprehensive Health Tracking Devices for Enhanced Health Monitoring," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-4, doi: 10.1109/EHB64556.2024.10805642. WOS:001413708800046.
9. **Elena-Anca Paraschiv**, Marilena Ianculescu, Andreea Gusatu, Victor Constantin (2024) "Digital Health Platforms as Educational Tools: Enhancing Self-Management for Patients with Mental Health Conditions", ICERI2024 Proceedings, pp. 4338-4347.
10. **Elena-Anca Paraschiv**, Cristian-Mihail Petrache, Ovidiu Bica, Ana-Mihaela Vasilevski, "Fall

- Detection System: Continuous in-Home Monitoring of Parkinson's Patients", Proceedings of The 10th Edition of IEEE International Conference on e-Health and Bioengineering (EHB 2022), 17-19 Nov. 2022, Iasi – WEBCONFERENCE – Romania 2022 E-Health and Bioengineering Conference (EHB).
11. **Elena-Anca Paraschiv**, Cristian-Mihail Petrache, and Ovidiu Bica, "On the continuous development of IoT in Big Data Era in the context of Remote Healthcare Monitoring & Artificial Intelligence," 2022 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2022, pp. 1-6, doi: 10.1109/ECAI54874.2022.9847503.
 12. Marilena Ianculescu, **Elena-Anca Paraschiv**, Adriana Alexandru, "Addressing Mild Cognitive Impairment and Boosting Wellness for the Elderly through Personalized Remote Monitoring", Healthcare 10, no. 7: 1214. 2022. <https://doi.org/10.3390/healthcare10071214>. WOS:000832374800001
 13. **Elena-Anca Paraschiv**, Eleonora Tudora, Eugenia Tîrziu and Adriana Alexandru, "IoT & Cloud Computing-based Remote Healthcare Monitoring System for an Elderly-Centered Care," 2021 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2021, pp. 1-4, doi: 10.1109/EHB52898.2021.9657585. WOS:000802227900049
 14. Silvia Ovrei, **Elena-Anca Paraschiv**, Elena Ovrei, "Deep Learning & Digital Fundus Images: Glaucoma Detection using DenseNet", ECAI 2021 13th Edition International Conference on Electronics, Computers and Artificial Intelligence, Pitesti, Romania, 2021, pp. 1-4, doi: 10.1109/ECAI52376.2021.9515188.

B. Cărți și manuale

1. Adriana Alexandru, Marilena Ianculescu, Elena-Anca Paraschiv (2024). "Harnessing the Capabilities of IoHT-Based Remote Monitoring Systems for Decision Making in Elderly Healthcare". In: Balas, V.E., Dzemyda, G., Belciug, S., Kacprzyk, J. (eds) Decision Making and Decision Support in the Information Era. Studies in Systems, Decision and Control, vol 534. Springer, Cham. https://doi.org/10.1007/978-3-031-62158-1_10. eBook ISBN – 978-3-031-62158-1.

C. Participări la conferințe/workshop-uri

1. 24th International Conference on Control Systems and Computer Science (CSCS), Facultatea de Automatică și Calculatoare, Universitatea de Știință și Tehnologie Politehnica București, România, 24-26 Mai 2023;
2. International Conference on e-Health and Bioengineering (EHB 2021), Iasi, Romania, 18-19 Noiembrie 2021;
3. International Conference on e-Health and Bioengineering (EHB 2022), Iasi, Romania, 17-18 Noiembrie 2022;
4. International Conference on e-Health and Bioengineering (EHB 2023), Hibrid (Iași, România), 9-10 Noiembrie 2023;
5. International Conference on e-Health and Bioengineering (EHB 2024), Iasi, Romania, 14-15 Noiembrie 2024;
6. 13th Edition International Conference on Electronics, Computers and Artificial Intelligence (ECAI 2021), Pitesti, Romania, 1-3 Iulie 2021
7. 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI 2022), Ploiesti, Romania, 30 Iunie - 1 Iulie 2022;
8. 5th International Conference on Applied Science and Engineering, Amsterdam, The Netherlands, 26-27 Iunie 2025;
9. Smart Diaspora 2023, Timișoara, 10-13 Aprilie 2023;
10. International Summer School on Imaging with Medical Applications (SSIMA 2022), Universitatea de Știință și Tehnologie Politehnica București, România, 5-9 septembrie 2022;

D. Brevete

1.

E. Proiecte de cercetare științifică

1. Proiect Nucleu - "Tehnici avansate de Inteligență Artificială în știință și domenii aplicative" (2023-2026);
2. Proiect AOSR - "Instrumente de transformare digitală pentru eGuvernare prin utilizarea domeniilor .ro" (2023-2024);
3. Proiect PN III - "Laboratoare de inovare în scopul creșterii performanței instituționale și dezvoltării competențelor în domeniul tehnologiilor emergente și disruptive" (2022-2024);
4. Proiect Horizon - "EuroCC – Centre de competență Naționale în cadrul EuroHPC" (2020-2022);
5. Proiect Horizon - "EuroCC2 – National Competence Centers within EuroHPC" (2023-2025);
6. Proiect INTEREG EUROPE - "Delivery of innovative solutions for Home Care by strengthening quadruple-helix cooperation in regional innovations chains – HoCare" (2021-2022);
7. Proiect Nucleu - "Sistem de monitorizare non-invazivă și evaluare a sănătății persoanelor vârstnice într-un mediu inteligent" (RO-SmartAgeing) (2019-2022);
8. Proiect EuroHPC JU - "BSC AI Factory" (2025-2026);

F. Stagii de perfecționare

1.

G. Cursuri de perfecționare

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H. Membru în comitete de organizare sau comitete științifice ale conferințelor/colective de redacție ale unor reviste

1.

Student-doctorand
Ing. Elena-Anca Paraschiv

