

LISTĂ DE LUCRĂRI ADOCHIEI IOANA (2025)

LISTA LUCRĂRILOR CONSIDERATE A FI CELE MAI RELEVANTE

1. **I. Adochiei**, T. L. Grigorie, F. Adochiei, P. Negrea, V. Cristian and N. Jula, "Assistive inertial 3D positioning MEMS system", E-Health And Bioengineering Conference (EHB), NOV 19-21, **2015**, Iasi, ROMANIA, doi: 10.1109/EHB.2015.7391536, ISSN: 2575-5137, eISSN: 2575-5145, ISBN: 978-1-4673-7545-0, **WOS:000380397900189**, **Indexat ISI Proceedings**.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7391536&isnumber=7391343>
2. **Ioana-Raluca Edu**, Felix-Constantin Adochiei, PG Matei, C Rotaru, "Numerical Method for Processing and Analysing Flying Effects on Pilots", 10th International Conference on Communications (COMM), MAY 29-31, **2014**, Bucharest, ROMANIA, DOI: 10.1109/ICComm.2014.6866701, ISBN: 978-1-4799-2385-4, **WOS:000345844600045**, **Indexat ISI Proceedings**.
<https://ieeexplore.ieee.org/document/6866701>
3. Pietraru, Radu Nicolae, Adriana Olteanu, **Ioana-Raluca Adochiei**, and Felix-Constantin Adochiei. 2024. "Reengineering Indoor Air Quality Monitoring Systems to Improve End-User Experience" Sensors 24, no. 8: 2659, WOS:001220198700001, **Indexat ISI, Impact Factor: 3.5**.
<https://doi.org/10.3390/s24082659>
4. T L Grigorie, R M Botez, M Lungu, **Raluca Ioana Edu**, R Obreja, "Micro-electromechanical systems gyro performance improvement through bias correction over temperature using an adaptive neural network-trained fuzzy inference system", Proceedings of the Institution of Mechanical Engineers Part G-Journal Of Aerospace Engineering, 2011, ISSN: 0954-4100, **Indexat ISI, Impact Factor: 1.1**.
<https://journals.sagepub.com/doi/10.1177/0954410011417671>
5. Pahonie, Radu Calin, Stefan, Amado, **Adochiei, Ioana Raluca**, et al., „Experimental Characterisation of the Mechanical Properties of Lightweight 3D Printed Polymer Materials for Biomechanical Application in Ankle-Foot Orthosis”, MATERIALE PLASTICE, Volume: 54 Issue: 2, Pages: 396-401, Published: JUN 2017. **Impact Factor 1.248**.
6. **Ioana Raluca Edu**, FC Adochiei, L Grigorie, A Pasarica, N Jula, "An Automated Inertial Indoor Positioning and Fall Detection System for Elder", 3rd International Conference on Nanotechnologies and Biomedical Engineering, IFMBE Proceedings, Volume: 55, Pages:

424-427, DOI: 10.1007/978-981-287-736-9_100, Published: **2016**, ISSN: 1680-0737, ISBN: 978-981-287-736-9; 978-981-287-735-2, Chisinau, MOLDOVA, WOS:000367995500098, **Indexat ISI Proceedings**.

7. A. Pasarica, G. Andruseac, **I. Adochiei**, C. Rotariu, H. Costin, F. Adochiei, “Remote Control of an Autonomous Robotic Platform Based on Eye Tracking”, Advances in Electrical and Computer Engineering, Publication Year: 2016, Page(s): 95 – 100, DOI: 10.4316/AECE.2016.04015, ISSN: 1582-7445, eISSN: 1844-7600, WOS:000390675900015, **Indexat ISI, Impact Factor: 0.7**.
8. Adochiei, Felix-Constantin, Simona-Narcisa Arghir, **Ioana Raluca Adochiei**, Florin Ciprian Argatu, George Calin Seritan, and Bogdan Alexandrescu. 2024. "The Power of Play: Strategies for Enhancing Development in Children with Autism Spectrum Disorders" Sensors 24, no. 20: 6720. <https://doi.org/10.3390/s24206720> , WOS:001341613300001, **Indexat ISI, Impact Factor: 3.5**.
9. F.-C. Adochiei, S. Schulz, **I.-R. Edu**, H. Costin, A. Voss, A new normalised short time PDC for dynamic coupling analyses, Biomedical Engineering-Biomedizinische Technik, Volume: 58, DOI: 10.1515/bmt-2013-4167, AUG 2013, ISSN: 0013-5585, eISSN: 1862-278X, WOS:201400204155, **Indexat ISI, Impact Factor: 1.8**.
10. Steffen Schulz, Felix-Constantin Adochiei, **I.-R. Edu**, S. Rico, Costin Hariton, Karl-Jürgen Bär, Voss Andreas, Cardiovascular and cardiorespiratory non-linear coupling analyses – a review, Philosophical Transactions of the Royal Society A-Mathematical Physical And Engineering Sciences, DOI: 10.1098/rsta.2012.0191, ISSN: 1364-503X, eISSN: 1471-2962, 2013, WOS:000330309500012, **Indexat ISI, Impact Factor: 3.7**.
11. F. C. Adochiei, F. A. Țoi, I. R. Adochiei, F. C. Argatu, G. Seritan, and G. G. Petroiu, “HL7 FHIR-based open-source framework for real-time biomedical signal acquisition and IoMT interoperability,” *Applied Sciences*, vol. 15, no. 23, Art. no. 12803, 2025, doi: 10.3390/app152312803. **Impact Factor: 2.5**.

TEZA DE DOCTORAT

Titlul tezei: „*Cercetări privind utilizarea micro și nanosenzorilor în navigația inerțială*”, 164 pagini, Universitatea POLITEHNICA din București, 2012.

Titlul științific de DOCTOR, prin diploma: seria **H** Nr. **0020459**, conferită în baza **Ordinului Ministrului Educației și Cercetării nr. 6508 din 19.12.2013**.

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1. **Ioana Raluca Adochiei**, Sanda Victorinne PAȚURCĂ, „Mașini și acționări electrice de aviație”, ISBN 978-606-23-0538-3, **2016**, Editura PRINTECH.
2. Sanda Victorinne PAȚURCĂ, **Ioana Raluca Adochiei**, "Control Numeric al Cuplului pentru Sisteme de Acționări Electrice", Editura Printech, BUCUREȘTI, **2016**, ISBN 978-606-23-0547-5
3. **Ioana Raluca Adochiei**, Daria-Andreea Ilie, “Echipamente de bord cu prelucrare digitală. Îndrumar de laborator”, Editura Sitech, **2025**, 235 pagini, ISBN - 978-606-11-8896-3.
4. Gabriela Gladiola Andruseac, **Ioana-Raluca Adochiei**, Alexandru Pasarica, "Programarea, comanda și controlul sistemelor robotice și de automatizare" Editura Printech, București, **2016**, ISBN 978-606-23-0608-3.
5. MATEI Pericle Gabriel, **EDU Ioana Raluca**, „ Afișarea integrată a datelor la bordul aeronavelor”, Editura Univers Științific, București **2015**, ISBN 978-973-1944-67-8
6. Grigorie Teodor Lucian, **Edu Ioana Raluca**, “Aplicații de navigație inerțială cu senzori miniaturizați”, Editura Sitech, **2014**, Craiova, ISBN: 978 – 606 – 11 3084 - 9.
7. Felix Adochiei, Florin Argatu, **Ioana Raluca Adochiei**, "Managementul Departamentului de Inginerie Clinică", Editura Politehnica Press, **2025**, ISBN 978-630-339-017-8.

MATERIALE DIDACTICE DIGITALE

1. Mașini și acționări electrice de aviație
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2. Echipamente de bord cu prelucrare digitală
<https://mtaro.sharepoint.com/:b:/s/DepartamentB-2/ET5b2ppZjxhJptKLeBqhEd4BnFP0rRTOYglPhJDh60NNIQ?e=FTqReC>
3. Echipamente de bord și navigație aeriană
https://mtaro.sharepoint.com/:b:/s/DepartamentB-2/ESobMuSedVJlIKXIsos3Xr4BU2qf0Cgz1c2LB6wRo_Uv-w?e=SkwRsC

REVISTE COTATE THOMSON REUTERS

1. Pietraru, Radu Nicolae, Adriana Olteanu, **Ioana-Raluca Adochiei**, and Felix-Constantin Adochiei. 2024. "Reengineering Indoor Air Quality Monitoring Systems to Improve End-User Experience" Sensors 24, no. 8: 2659, WOS:001220198700001, **Indexat ISI, Impact Factor: 3.5.**

<https://doi.org/10.3390/s24082659>

2. T L Grigorie, R M Botez, M Lungu, **Raluca Ioana Edu**, R Obreja, "Micro-electromechanical systems gyro performance improvement through bias correction over temperature using an adaptive neural network-trained fuzzy inference system", Proceedings of the Institution of Mechanical Engineers Part G-Journal Of Aerospace Engineering, 2011, ISSN: 0954-4100, **Indexat ISI, Impact Factor: 1.1.**

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3. Pahonie, Radu Calin, Stefan, Amado, **Adochiei, Ioana Raluca**, et al., „Experimental Characterisation of the Mechanical Properties of Lightweight 3D Printed Polymer Materials for Biomechanical Application in Ankle-Foot Orthosis”, MATERIALE PLASTICE, Volume: 54 Issue: 2, Pages: 396-401, Published: JUN 2017. **Impact Factor 1.248.**
4. **Ioana Raluca Edu**, FC Adochiei, L Grigorie, A Pasarica, N Jula, “An Automated Inertial Indoor Positioning and Fall Detection System for Elder”, 3rd International Conference on Nanotechnologies and Biomedical Engineering, IFMBE Proceedings, Volume: 55, Pages: 424-427, DOI: 10.1007/978-981-287-736-9_100, Published: **2016**, ISSN: 1680-0737, ISBN: 978-981-287-736-9; 978-981-287-735-2, Chisinau, MOLDOVA, WOS:000367995500098, **Indexat ISI Proceedings.**
5. A. Pasarica, G. Andruseac, **I. Adochiei**, C. Rotariu, H. Costin, F. Adochiei, “Remote Control of an Autonomous Robotic Platform Based on Eye Tracking”, Advances in Electrical and Computer Engineering, Publication Year: 2016, Page(s): 95 – 100, DOI: 10.4316/AECE.2016.04015, ISSN: 1582-7445, eISSN: 1844-7600, WOS:000390675900015, **Indexat ISI, Impact Factor: 0.7.**
6. Adochiei, Felix-Constantin, Simona-Narcisa Arghir, **Ioana Raluca Adochiei**, Florin Ciprian Argatu, George Calin Seritan, and Bogdan Alexandrescu. 2024. "The Power of Play: Strategies for Enhancing Development in Children with Autism Spectrum Disorders" Sensors 24, no. 20: 6720. <https://doi.org/10.3390/s24206720> , WOS:001341613300001, **Indexat ISI, Impact Factor: 3.5.**
7. F.-C. Adochiei, S. Schulz, **I.-R. Edu**, H. Costin, A. Voss, A new normalised short time PDC for dynamic coupling analyses, Biomedical Engineering-Biomedizinische Technik, Volume: 58, DOI: 10.1515/bmt-2013-4167, AUG 2013, ISSN: 0013-5585, eISSN: 1862-278X, WOS:201400204155, **Indexat ISI, Impact Factor: 1.8.**
8. Steffen Schulz, Felix-Constantin Adochiei, **I.-R Edu**, S. Rico, Costin Hariton, Karl-Jürgen Bär, Voss Andreas, Cardiovascular and cardiorespiratory non-linear coupling analyses – a review, Philosophical Transactions of the Royal Society A-Mathematical

Physical And Engineering Sciences, DOI: 10.1098/rsta.2012.0191, ISSN: 1364-503X, eISSN: 1471-2962, 2013, WOS:000330309500012, **Indexat ISI, Impact Factor: 3.7.**

9. F. C. Adochiei, F. A. Țoi, **I. R. Adochiei**, F. C. Argatu, G. Serîțan, and G. G. Petroiu, "HL7 FHIR-based open-source framework for real-time biomedical signal acquisition and IoMT interoperability," *Applied Sciences*, vol. 15, no. 23, Art. no. 12803, 2025, doi: 10.3390/app152312803. **Impact Factor: 2.5.**

VOLUME PROCEEDINGS INDEXATE THOMSON-REUTERS AUTOR PRINCIPAL:

1. **I. Adochiei**, L. Haller, G. Dobrin, R. Mircioaga, M. Nidelea, and G. G. Petroiu, "Body motion resulting from handgun firing on shooters in standing position," in *Proceedings of the 13th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iași, Romania, Nov. 13–14, 2025.
2. **I. R. Adochiei**, F. C. Argatu, B. A. Enache, C. K. Banica, S. D. Grigorescu, *et al.*, "Modular mobile robotic platform for smart city and indoor service applications," in *Proceedings of the International Conference on Nanotechnologies and Biomedical Engineering*, 2025, pp. 624–634.
3. **I. -R. Adochiei**, M. Popescu, F. C. Argatu, G. Petroiu and F. -C. Adochiei, "Intraocular Pressure Determining System Based on Rebound Tonometry," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-5, doi: 10.1109/EHB64556.2024.10805608.WOS:001413708800103
4. **Adochiei, IR.**, Paraschiv, R., Petroiu, G., Sultana, A., Duta, S., Adochiei, F. (2024). „Exploring EEG Patterns as Indicators of Stress: A Comprehensive Study”. In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) *Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings*, vol 110. Springer, Cham. https://doi.org/10.1007/978-3-031-62520-6_40, WOS:001326809000040
5. **I. -R. Adochiei**, V. -V. Argatu, D. Voiculescu, C. -A. Becheanu and A. Dragu, "Driven Wheelchair Design and Implementation Using EOG Signals," 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), Bucharest, Romania, 2020, pp. 1-4, doi: 10.1109/ISFEE51261.2020.9756139 .WOS:000812321500009
6. **I. -R. Adochiei** et al., "Drivers' Drowsiness Detection and Warning Systems for Critical Infrastructures," 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280165. WOS:000646194100040
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8. **Ioana-Raluca Adochiei**, Felix Adochiei, Costin Cepisca, George Serîțan, Bogdan Enache, Florin Argatu, Radu Ciucu, "Complex Embedded System for Stress Quantification," 11th

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9. **IR Edu**, FC Adochiei, L Grigorie, A Pasarica, N Jula, "An Automated Inertial Indoor Positioning and Fall Detection System for Elder", 3rd International Conference on Nanotechnologies and Biomedical Engineering, IFMBE Proceedings, Volume: 55, Pages: 424-427, DOI: 10.1007/978-981-287-736-9_100, Published: **2016**, ISSN: 1680-0737, ISBN: 978-981-287-736-9; 978-981-287-735-2, Chisinau, MOLDOVA, **WOS:000367995500098**
10. **I. Edu**, T. L. Grigorie, F. Adochiei, C. Rotaru and N. Jula, "Inertial Sensor Signals Denoising with Directed Transfer Function" 2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, **2015**, pp. 945-948. Romania, doi: 10.1109/ATEE.2015.7133938, ISBN: 978-1-4799-7514-3, **WOS:000368159800175**
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13. **EDU Ioana Raluca**, Lita D., Obreja R., Grigorie T.L., "Micro and nano multisensor data fusion for navigation applications: a review", International Multidisciplinary Scientific GeoConference & EXPO (SGEM 2011), 19-25 iunie, Albena, Bulgaria, **2011** (ISI Proceedings) (SCOPUS, ProQuest, GeoRef).
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15. **Edu I. Raluca**, G. T. Lucian and C. Costin, "Kalman filtering of the miniaturized inertial sensors' data for inertial navigation," 2011 7TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE), Bucharest, **2011**, pp.

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1. F. C. Adochiei, F. A. Țoi, F. Argatu, G. Seritan, and **I. R. Adochiei**, "Integrated system for interconnecting medical equipment and secure data transmission to a remote monitoring platform," in *Proceedings of the 14th International Symposium on Advanced Topics in Electrical Engineering (ATEE)*, Bucharest, Romania, Oct. 9–11, 2025.
2. F. E. Toma, **I. R. Adochiei**, C.-M. Larco, I.-C. Bogliș, Ș.-M. Mustață, M. Nacu, and C. Vidan, "Human–system interaction and gyroscopic stability modeling in aerospace navigation: MATLAB App Designer implementation and simulation," in *Proceedings of the 13th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iași, Romania, Nov. 13–14, 2025.
3. L. Haller, G. Dobrin, M. Nidelea, E. Trana, **I. Adochiei**, and F. Pana, "Effect of varying recoil forces exerted by semiautomatic pistols on shooter stability," in *Proceedings of the 13th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iași, Romania, Nov. 13–14, 2025.
4. O. I. Știrbu, **I. R. Adochiei**, Ș. T. Nicolescu, C. K. Banica, G. C. Seritan, *et al.*, "Brain–computer interface-enabled decision support for human behavior monitoring in safety-critical contexts," in *Proceedings of the International Conference on Nanotechnologies and Biomedical Engineering*, 2025, pp. 519–528.
5. F. C. Argatu, **I. R. Adochiei**, B. A. Enache, C. K. Banica, G. C. Seritan, and F. C. Adochiei, "Embedded power management and state-of-charge estimation in modular robotic platforms: Experimental validation and web-based monitoring," in *Proceedings of the International Conference on Nanotechnologies and Biomedical Engineering*, 2025, pp. 635–644.
6. R.-G. Zinca, **I.-R. Adochiei**, F. C. Argatu, D. A. Dolhăscu, M. Nidelea, and F.-C. Adochiei, "Electrodermal activity as a predictor of emergence time from general anaesthesia," in *Proceedings of the 13th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iași, Romania, Nov. 13–14, 2025.
7. D. A. Dolhăscu, D. C. Irimia, M. Poboroniuc, F.-C. Adochiei, G. G. Petroiu, and **I.-R. Adochiei**, "EEG-based mapping of biomedical signal dynamics and emotional states for emotion-aware biomedical systems," in *Proceedings of the 13th IEEE International Conference on e-Health and Bioengineering (EHB)*, Iași, Romania, Nov. 13–14, 2025.
8. F. -C. Adochiei, D. -A. Dumitrescu, G. C. Seritan, F. Ciprian Argatu, B. -A. Enache and **I. -R. Adochiei**, "IoT-Based Real-Time Electrocardiogram Monitoring and Recording System," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-5, doi: 10.1109/EHB64556.2024.10805722. WOS:001413708800104
9. O. -I. Stirbu, S. T. Nicolescu, **I. R. Adochiei**, C. K. Banica, D. A. Dolhascu and F. -C. Adochiei, "AI Algorithm for Assessing Levels of Dissimulation Through EEG and

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10. Radu Ciucu, **Ioana Raluca Adochiei**, Florin Ciprian Argatu¹ and et. All., Enhancing Super-Resolution Microscopy Through a Synergistic Approach, Advances in Digital Health and Medical Bioengineering: Proceedings of the 11th International Conference on E-Health and Bioengineering, EHB-2023, November 9–10, 2023, Bucharest, Romania–Volume 2: Health Technology Assessment, Biomedical Signal Processing, Medicine and Informatics, WOS:001326809000036
11. Marina-Georgiana Roman¹, **Ioana-Raluca Adochiei**, Solutions to Reduce Electromagnetic Interference Inside Anesthesia and Intensive, Advances in Digital Health and Medical Bioengineering: Proceedings of the 11th International Conference on E-Health and Bioengineering, EHB-2023, November 9–10, 2023, Bucharest, Romania–Volume 1: Medical Devices, Measurements, and Artificial Intelligence Applications, WOS:001326807700043
12. Felix-Constantin Adochiei, Titi Paraschiv, Daniel Cochior, Ruxandra Paraschiv, Oana Izabela Stirbu, Florin Ciprian Argatu, **Ioana-Raluca Adochiei**, Determination of Cognitive-Emotional Characteristics through the Method of Individual Asymmetries of Power Spectral Density of EEG Waves, 2023 International Symposium on Fundamentals of Electrical Engineering (ISFEE), WOS:001324614500008
13. Manea, A., Argatu, F.C., Seritan, G.C., Enache, B.A., **Adochiei, I.R.**, Adochiei, F.C. (2024). Intelligent Monitoring System for Stress Levels. In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings, vol 111. Springer, Cham. https://doi.org/10.1007/978-3-031-62523-7_7, WOS:001434998400007
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15. Radu, L.E., Manea, I., Duță, Ș., **Adochiei, IR.**, Argatu, FC. (2024). Towards Sustainable Healthcare: Development of an Integrated Waste Management Application for Hospital Environments. In: Costin, HN., Magjarević, R., Petroiu, G.G. (eds) Advances in Digital Health and Medical Bioengineering. EHB 2023. IFMBE Proceedings, vol 111. Springer, Cham. https://doi.org/10.1007/978-3-031-62523-7_6, WOS:001434998400006
16. C. Ene, **I. Adochiei**, C. -D. Enache, T. -I. Voicila and D. I. Voiculescu, "The Identification and Classification of Facial Expressions under Stress using an EMG," 2021 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2021, pp. 1-6, doi: 10.1109/EHB52898.2021.9657559. WOS:000802227900024

17. George-Calin Seritan, Bogdan-Adrian Enache, Felix-Constantin Adochiei, Florin-Ciprian Argatu, Andrei-Sebastian Petrescu, **Ioana-Raluca Adochiei**, Daniel Iulian Voiculescu, Computing the Caloric Expenditure During Kick Scooter Activity, 2020 International Conference on e-Health and Bioengineering (EHB), WOS:000646194100128
18. Felix-Constantin Adochiei, Șerban-Teodor Nicolescu, **Ioana-Raluca Adochiei**, George-Calin Seritan, Bogdan-Adrian Enache, Florin-Ciprian Argatu, Diana Costin, Electronic system for real-time indoor air quality monitoring, 2020 E-Health and bioengineering (EHB), WOS:000646194100066
19. Bogdan-Adrian Enache, Sorin-Dan Grigorescu, **Ioana-Raluca Adochiei**, Cristina-Daniela Enache, Daniel Iulian Voiculescu, Violeta Argatu, Alexandra Nistor, Luminita-Mirela Constatinescu, Constantin Stoica, Didactic Implementation of a Real-Time Biomonitoring Platform, 2020 12th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), WOS:000627393500078
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DIRECTOR/ RESPONSABIL PARTENER PROIECT:

1. "Stratospheric microplatform for research testing and educational functions - STRATOTEST", 2017 - 2019, program de finantare: ROSA - STAR-CDI-170/20.07.2017 - **Responsabil proiect**
2. "Sistem de navigație și control pentru misiuni militare în medii cu bruiaj GNSS"- Competiția de proiecte de cercetare a Academiei Oamenilor de Știință din România (AOSR) - TEAMS II, EDIȚIA 2023-2024" - **Responsabil proiect**

MEMBRU ÎN ECHIPA DE CERCETARE (Selectie)

1. "South-East European Transmission System Operators Challenges" (2011-2012), European Grant no. 239453 / FP7-ENERGY-2008-TREN-1 - Research Assistant.
2. "Navigatori inerțiali strap-down de înaltă precizie, bazați pe conectarea și integrarea adaptivă a nano și micro senzorilor inerțiali în rețele low-cost, cu grad ridicat de redundanță"- Space Technology and Advanced Research (STAR) - Program for Research, Development and Innovation, European Project No. 27/19.11.2012

DIRECTOR/ RESPONSABIL PROIECT PARTENER PÂNĂ ÎN 200 EURO:

1. Director proiecte de cercetare în planul intern al MAPN (PSCD-uri) – 2013- 2014, 2015 - 2017.