

Universitatea: *Academia Tehnică Militară „Ferdinand I”*

Facultatea: Facultatea de Comunicații și Sisteme Electronice pentru Apărare și Securitate

Departament: Departamentul de Echipamente și Sisteme Electronice Militare

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Contribuții privind studiul injectiei în motoarele cu aprindere prin comprimare de mare putere”,
Academia Tehnică Militară, 2023, profesor Mircea NĂSTASE

B. Cărți și capitole în cărți publicate

1. **L.Ș. Grigore**, I. Priescu, D.L. Grecu, C. Priescu, „*Artificial Intelligence and Applications in Fixed and Mobile Robotic Systems.*” Ed. PRINTECH, București, ISBN: 978-606-23-1671-6, 2025, pg. 775
2. O. Alexa, T. Ciobotaru, **L.Ș. Grigore**, L.T. Grigorie, M. Truță, „*Analiza sistemică a soluțiilor de propulsoare pentru UGV cu roți și cu șenile.*” Ed. MATRIX ROM, București, ISBN: 978-606-25-0811-1, 2023, pg. 157.
3. **L.Ș. Grigore**, I. Priescu, V. Opreș, A.-C. Dăscălescu, D.-L. Grecu, „*Inginerie Software și Tehnici de Inteligență Artificială.*” Ed. AGIR, ISBN: 978-973-720-833-0, 2021, pg. 350.
4. Octavian ALEXA, Iulian Coropețchi, Vasile Alexandru, **Lucian Ștefăniță GRIGORE**, „*Complemente teoretice, experimentale și de modelare a autovehiculelor pe șenile – îndrumar de laborator.*” Ed. Academiei Tehnice Militare, București, ISBN: 973-640-316-3, 2020, pg. 144.
5. **L.Ș. Grigore**, I. Priescu, D.L. Grecu, „*Inteligența Artificială Aplicată în Sisteme Robotizate Fixe și Mobile.*” Ed. AGIR, București, ISBN: 978-973-72-0767-8, 2020, pg. 703.
6. T. Ciobotaru, V. Vînturiș, A. Gherman, **L.Ș. Grigore**, „*Încercarea autovehiculelor.*”, Editura Mirton, Timișoara, ISBN: 978-973-52-0562-1, 2009, pg. 204, Colecția TechnE.
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8. **L.Ș. Grigore**, T. Ciobotaru, N. Costache, V. Vînturiș, L. LOGHIN, „*Principiile transferului termic.*”, Ed. Academiei Tehnice Militare, București, ISBN: 973-640-014-X, 2003, pg. 208.
9. **L.Ș. Grigore**, „*Termotehnică. Îndrumar de laborator.*”, Ed. Academiei Tehnice Militare, București, 1999, pg. 98.

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

1. Damian GORGOTEANU, Cristian MOLDER, Vlad-Gabriel POPESCU, **Lucian-Ștefăniță GRIGORE**, Ionica ONCIOIU, ” Optimizing an Autonomous Robot’s Path to Increase Movement Speed”, MDPI Electronics **2024**, vol. 13, issue 10, 1892, pp. 23, <https://doi.org/10.3390/electronics13101892> , WOS:001235070500001.

2. George Iulian Balan, Dragos Gabriel Zisopol, Amado Stefan, Vasile Nastasescu, **Lucian Grigore**, „*Study of the Injection of Secondary Air into the Intake Manifold of the Gas Turbine to Avoid the Compressor Surging Phenomenon*”, Journal ETASR - Engineering, Technology & Applied Science Research 2024, Vol. 14 No. 2 (2024): April, **2024**, pp. 13248-13254, <https://etasr.com/index.php/ETASR/article/view/6927/3506> , WOS:001198238800096.
3. Alexa Octavian; Ciobotaru Ticusor; Vinturis Valentin Margarit; **Grigore Lucian Stefanita**; Tiganasu Dinu; Grigorie Lucian Teodor, „*A Theoretical Approach for Modeling Unmanned Ground Vehicle Dynamics*”, Romanian Journal of Automotive Engineering 2024, ISSN 1842 – 4074, vol. 70, p. 5-9, Ingineria Automobilului, SOC AUTOMOTIVE ENGINEERS ROMANIASOC AUTOMOTIVE ENGINEERS ROMANIA, BUCURESTI 00000, ROMANIA, <https://siar.ro/wp-content/uploads/2024/03/rIA-70.pdf> , WOS:001186398200004.
4. Marius-Valentin Drăgoi, Anton Hadăr, Nicu Goga, Florin Baci, Amado Ștefan, **Lucian Ștefăniță Grigore**, Damian Gorgoteanu, Cristian Molder, Ionica Oncioiu, „*Contributions to the Dynamic Regime Behavior of a Bionic Leg Prosthesis*”, Journal MDPI BIOMIMETICS 2023, 8(5), 414, pp. 33, Published: 6 September **2023**, <https://doi.org/10.3390/biomimetics8050414> , WOS:001077079900001.
5. Octavian Alexa, Ticușor Ciobotaru, **Lucian Ștefăniță Grigore**, Lucian Grigorie, Amado Ștefan, Ionica Oncioiu, Iustin Priescu, Cristina Vlădescu, „*A Review for Mathematical Models Used to Estimate Wheeled and Tracked UGV Kinematics and Dynamics*”, Journal MDPI MATHEMATICS 2023, 11(17), 3735, pp. 20, Published: 30 August **2023**, <https://doi.org/10.3390/math11173735> , WOS:001062835400001.
6. Andra Tofan-Negru, Amado Ștefan, **Lucian Ștefăniță Grigore** and Ionica Oncioiu, „*Experimental and Numerical Considerations for the Motor-Propeller Assembly's Air Flow Field over a Quadcopter's Arm*”, Journal MDPI DRONES **2023**, 7(3), 199, <https://doi.org/10.3390/drones7030199> , <https://www.mdpi.com/2504-446X/7/3/199> , WOS:000958567700001.
7. Dragoi Marius-Valentin; Hadar Anton; Goga Nicolae; **Grigore Lucian-Stefanita**; Stefan Amado; Ali Haider Abdullah, „*Design and Implementation of an EEG-Based BCI Prosthetic Lower Limb Using RASPBERRY PI 4*”, Journal Scientific Bulletin UPB 2024, U.P.B. Sci. Bull., Series C, Vol. 85, Iss. 3, **2023**, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez353_504936.pdf , WOS:001052259100027.
8. Amado Ștefan, **Lucian Ștefăniță Grigore**, Cristian Molder, Ionica Oncioiu, Bogdan Vlădescu, Daniel Constantin, Damian Gorgoteanu, Răzvan-Ionuț Bălașa, Ștefan Mustață, „*Research on Heat Transfer through a Double-Walled Heat Shield of a Firefighting Robot*”, Journal MDPI MACHINES **2022**, 10 (10), 942, <https://doi.org/10.3390/machines10100942> , WOS:000873178700001.
9. Amado Ștefan, **Lucian Ștefăniță Grigore**, Ionica Oncioiu, Daniel Constantin, Ștefan Mustață, Vlad Florin Toma, Cristian Molder, Damian Gorgoteanu, „*Influence of the Stiffness of the Robotic Arm on the Position of the Effector of an EOD Robot*”, Journal MDPI ELECTRONICS **2022**, 11(15), 2355, <https://doi.org/10.3390/electronics11152355> , WOS:000839209900001.
10. Anca-Gabriela PETRESCU, **Lucian-Ștefăniță GRIGORE**, Ionica ONCIOIU, Florentina-Raluca BILCAN, Delia-Mioara POPESCU, Mihai PETRESCU, „*Autonomous Mobile Robots Using Machine Learning Methods to Recognise the Rapid Spread of the Ongoing*

- COVID-19 Epidemic*”, Journal Studies in Informatics and Control, Volume 31, Issue 1, Page 79-88, 22.04.2022, <https://doi.org/10.24846/v31i1y202208> , WOS:000779783700008.
11. Amado-George ȘTEFAN, **Lucian Ștefăniță GRIGORE**, Silvia MARZAVAN, Iustin PRIESCU, Ionica ONCIOIU, „*Theoretical and Experimental Aspects Regarding the Forced Mounting of a Cylinder Containing the Electronics of a Mini Submarine*”, MDPI Journal of Marine Science and Engineering, 2021, 9(8), 855, 08 august 2021, <https://doi.org/10.3390/jmse9080855> , WOS:000689387400001.
 12. **Lucian Ștefăniță GRIGORE**, Ionica ONCIOIU, Iustin PRIESCU, Daniela JOIȚA, „*Development and Evaluation of the Traction Characteristics of a Crawler EOD robot.*”, Journal MDPI APPLIED SCIENCES, 11(9), 3757, pp. 32, 21 April 2021, Special Issue “*Modelling and Control of Mechatronic and Robotic Systems, Volume II*”, applsci-1187434, <https://doi.org/10.3390/app11093757> , SCOPUS 21100829268.
 13. **Lucian Ștefăniță GRIGORE**, Damian GORGOTEANU, Cristian MOLDER, Octavian ALEXA, Ionica ONCIOIU, Amado ȘTEFAN, Daniel CONSTANTIN, Marin LUPOAE, Răzvan-Ionuț BĂLAȘA, „*A Dynamic Motion Analysis of a Six-Wheel Ground Vehicle for Emergency Intervention Actions.*”, Journal MDPI SENSORS, volume 21, issue 5, 1618, pp. 30, 25.02.2021, <https://doi.org/10.3390/s21051618> , SCOPUS 130124.
 14. **L.Ș. Grigore**, A. Ștefan, O. Orban, I.R. Adochiei, „*Considerations regarding the equivalent Von Mises stresses of a UAV payload structure made by 3D printing technology.*”, Journal MATERIALE PLASTICE Mater. Plast., vol. 57, issue 4, pp. 21-23, 2020, Manuscript ID: P20.142, ISSN: 2668-8220, <https://doi.org/10.37358/MP.20.4.5403> , SCOPUS 14217.
 15. O. Alexa, I. Coropețchi, A. Vasile, I. Oncioiu, **L.Ș. Grigore**, „*Considerations for determining the coefficient of inertia masses for a tracked vehicle.*”, Journal MDPI SENSORS, Special Issue Sensors with Machine Learning Methods for Assisted Systems - Recent Advances and Future Trends, ISSN: 1424-8220, CODEN: SENSC9, vol. 20, issue 19, 5587, 29 September 2020, <https://doi.org/10.3390/s20195587>, SCOPUS 130124.
 16. **L.Ș. Grigore**, A.G. Ștefan, O. Orban, „*Using PET-G to Design an Underwater Rover Through 3D Printing Technology.*”, Journal MATERIALE PLASTICE Mater. Plast., vol. 57, issue 3, pp. 189-201, 2020, Manuscript ID: P20.141, ISSN: 2668-8220, <https://doi.org/10.37358/MP.20.3.5393>, SCOPUS 14217.
 17. **L.Ș. Grigore**, I. Priescu, D. Joița, I. Oncioiu, „*The Integration of Collaborative Robot Systems and Their Environmental Impacts.*”, Journal MDPI-Processes, Neural Computation and Applications for Sustainable Energy Systems, ISSN: 2227-9717, CODEN: PROCCO, Vol. 8, Issue 4, 23 April 2020, <https://doi.org/10.3390/pr8040494>, SCOPUS 21100838131.
 18. N. Popescu-Bodorin, **L.Ș. Grigore**, V.E. Balaș, C.M. Noaica, I. Axenie, J. Popa, C. Munteanu, V. Stroescu, I. Manu, A. Herea, K. Horasanlı, I.M. Motoc, „*Cross-Sensor Iris Recognition: LG4000-to-LG2200 Comparison.*”, 2018, arXiv:1801.01695 – Cornell University, <https://arxiv.org/abs/1801.01695>.

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

- Reviste

1. Octavian ALEXA, **Lucian-Ștefăniță GRIGORE**, Lucian-Teodor GRIGORIE, Andrei INDREȘ, Alexandru VASILE, Dinu ȚIGĂNAȘU, Theoretical aspects regarding modeling the interaction between the running path and the wheels of a UGV traveling

- on deformable terrain, MTA Review Vol. 6, No. 2, Dec. 2023, <https://doi.org/10.32754/JMT.2023.2.05>.
2. Octavian ALEXA, Ticușor CIOBOTARU, **Lucian-Ștefăniță GRIGORE**, Laszlo BAROTHI, Alexandru VASILE, Dinu ȚIGĂNAȘU, Theoretical aspects regarding the modeling of the longitudinal dynamics of a tracked UGV, MTA Review Vol. 6, No. 2, Dec. 2023, <https://doi.org/10.32754/JMT.2023.2.04>.
 3. George BALAN, Amado ȘTEFAN, Vasile NĂSTĂSESCU, **Lucian-Ștefăniță GRIGORE**, Analysis of airflow through the intake manifold of the ST40M gas turbine engine, MTA Review Vol. 6, No. 2, Dec. 2023, <https://doi.org/10.32754/JMT.2023.2.01>.
 4. George BALAN, Amado ȘTEFAN, Vasile NĂSTĂSESCU, **Lucian-Ștefăniță GRIGORE**, Aspects of airflow through a model of the ST40M gas turbine intake manifold, MTA Review Vol. 6, No. 2, Dec. 2023, <https://doi.org/10.32754/JMT.2023.2.02>.
 5. **Lucian GRIGORE**, Amado ȘTEFAN, Florina BUCUR, Bogdan VLĂDESCU, Cristian MOLDER, Damian GORGOTEANU, Considerations of Collision Avoidance by a Maritime Robot, Journal of Military Technology Vol. 6, No. 1, Jun. 2023, <https://doi.org/10.32754/JMT.2023.1.01>.
 6. Ana HALCĂ, **Lucian GRIGORE**, Daniel CONSTANTIN, Cristian MOLDER, Damian GORGOTEANU, Considerations Regarding the Hybrid Propulsion System of a Ground Robot, Journal of Military Technology Vol. 6, No. 1, Jun. 2023, <https://doi.org/10.32754/JMT.2023.1.02>.
 7. Amado ȘTEFAN, Daniel CONSTANTIN, Cristian MOLDER, **Lucian GRIGORE**, Characteristics of Cooling Processes through TEC Technology of Processors, Journal of Military Technology Vol. 4, No. 1, Jun. 2021, <https://doi.org/10.32754/JMT.2021.1.02>.

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Ticușor Ciobotaru, **Lucian Ștefăniță Grigore**, L Barothi, Octavian Alexa, „*Kinematic and dynamic analysis of a planetary gear box in steady-state working regime*”, ESFA - 2023, IOP Conf. Series: Materials Science and Engineering 1303 (2024) 012015, <https://doi.org/10.1088/1757-899X/1303/1/012015>.
2. Iustin PRIESCU, Daniela JOIȚA, Ionica ONCIOIU, **Lucian-Ștefăniță GRIGORE**, Ștefan BOTONCEA, Ciprian BÎLU, „*Considerations for Controlling a Bionic Hand Using EMG Sensors*”, The 11th IEEE International Conference on E-Health and Bioengineering - EHB 2023 Grigore T. Popa University of Medicine and Pharmacy Iasi, November 9-10, 2023, Bucharest, Romania, Publishing Due: 18 July 2024, <https://link.springer.com/book/9783031625220>, https://doi.org/10.1007/978-3-031-62502-2_5, ISBN: 978-3-031-62523-7, 2-s2.0-85210091572.
3. Damian GORGOTEANU, **Lucian Ștefăniță GRIGORE**, Cristian MOLDER, „*Mapping algorithm using SWARM robots*”, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2021, pp. 1-4, <https://doi.org/10.1109/ECAI52376.2021.9515072>, 2-s2.0-85115053086.

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4. **Lucian Ștefăniță GRIGORE**, Damian GORGOTEANU, Cristian MOLDER, Amado ȘTEFAN, Daniel CONSTANTIN, Adriana MOLDER-MILĂȘAN, „*Considerations on the characteristic of electric traction motors of an EOD robot*”, 2021 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 2021, pp. 1-6, <https://doi.org/10.1109/ECAI52376.2021.9515037> , ISBN: 978-1-6654-2534-6, 2-s2.0-85115070644.
5. **Lucian Ștefăniță GRIGORE**, Amado ȘTEFAN, Ionica ONCIOIU, Cristian MOLDER, Damian GORGOTEANU, Daniel CONSTANTIN, Răzvan-Ionuț BĂLAȘA, „*Aspects Regarding of a UGV Fire Fighting thermal shield*”, Published: 17 May 2021 by MDPI in 8th International Symposium on Sensor Science session Sensor Applications and Smart Systems, Eng. Proc. 2021, 6(1), 83; <https://doi.org/10.3390/I3S2021Dresden-10082>, <https://www.mdpi.com/2673-4591/6/1/83/pdf> , MDPI Sensors Conference, <https://sciforum.net/paper/view/10082> , <https://doi.org/10.3390/I3S2021Dresden-10082> , 2-s2.0-85145214698.
6. D.L. Grecu, I. Priescu, **L.Ș. Grigore**, D. Joița, „*Firefighting Robot FFR-1. Terrestrial Robotics all Terrain.*”, The International Conference 'Education and Creativity for a Knowledge-Based Society' - Computer Science - XIth Edition, **2017**, ISBN: 978-3-9503145-5-7.
7. **L.Ș. Grigore**, I. Priescu, D.L. Grecu, D. Joița, „*Analytical Considerations Regarding the Payload Stabilization of an UAVs Equipment.*” The International Conference 'Education and Creativity for a Knowledge-Based Society' - Computer Science - Xth Edition, The International Conference 'Education and Creativity for a Knowledge-Based Society', **2016**, ISSN: 2248-0064, ISBN: 978-3-9503145.
8. **L.Ș. Grigore**, I. Priescu, D.L. Grecu, D. Joița, „*Considerations for designing the Automated Algorithms of a Thermodynamic Mechanism.*” The International Conference 'Education and Creativity for a Knowledge-Based Society' - Computer Science - Xth Edition, The International Conference 'Education and Creativity for a Knowledge-Based Society', **2016**, ISSN: 2248-0064, ISBN: 978-3-9503145.

E. Brevete obținute în întreaga activitate

1.

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