

L I S T A
lucrărilor științifice

A. Teza de doctorat

1. Studii și cercetări privind aplicații ale levitației magnetice în tehnica militară

B. Cărți și capitole în cărți publicate

1. **GHERMAN, L:** *Războiul electronic în era informațională*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2014. ISBN 978-606-8356-23-5;
2. **GHERMAN, L:** *Studiu privind dezvoltarea tunurilor electromagnetice*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2015. ISBN 978-606-8356-31-0;
3. **GHERMAN, L, ROMAN, C, HAKAKAL M:** *Electronic warfare in the information age*, Editura Academiei Forțelor Armate din Slovacia, 2015. ISBN 978-80-8040-512-0;
4. **PEARSICĂ, M, GHERMAN, L:** *Propagarea undelor electromagnetice*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2015. ISBN 978-606-8356-31-0;
5. **PEARSICĂ, M, GHERMAN, L:** *Propagarea undelor electromagnetice - note de curs*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2015;
6. **PEARSICĂ, M, GHERMAN, L:** *Compatibilitate electromagnetică - note de curs*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2015;
7. **GHERMAN, L:** *Curs de sisteme automate*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2015;
8. **HAKAKAL, M, TURČANÍK, M, GHERMAN, L:** *Special Arithmetics and Digital Logic Design - Scientific Monograph*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2017; ISBN 978-606-8356-45-7;
9. **SOBOŇ, A, GREŇDA, B, GHERMAN, L:** *Security of Europe - Challenges and Threats in the 21st Century*, Editura Academiei Forțelor Aeriene „Henri Coandă”, 2018; ISBN 978-606-8356-60-0;
10. **GHERMAN, L :** *Modeling and Simulations of an Electromagnetic Launch System*, Printing and binding: Wydawnictwo Akademii Sztuki Wojennej, 2021 . ISBN 978-83-8263-122-7;
11. **CIOACĂ, C, GHERMAN, L:** *Military Applications of Modeling and Simulation*, Printing and binding: Wydawnictwo Akademii Sztuki Wojennej, 2021, ISBN 978-83-8263-122-7;



C. Lucrări indexate ISI publicate

1. CONSTANTINESCU, C.G., PEARSICĂ, M., STRÎMBU, C., RAȚIU, I.G., **GHERMAN, L.:** *A Method on Multiple Trigonometric Regressions.* "TELE-INFO '09", 2009 WSEAS International Conference on Telecommunications and Informatics, Istanbul, Turkey, May 30 - June 1, 2009, pp 140. ISBN 978-960-474-084-0. ISSN: 1790-5117.
2. **GHERMAN, L.;** PEARSICĂ, M.; STRÎMBU, C.; CONSTANTINESCU, C.G.: *Induction Coilgun Based on „E-Shaped” Design.* IEEE Transactions on Plasma Science, February 2011; ISSN 0093-3813;
3. **GHERMAN, L.** MOȘOIU, O. BUCINSCHI, V: *Information Resources Management Based on Feedback Theory in a Military Organization.* The 12th International Scientific Conference eLearning and Software for Education Bucharest, April 21- 22, 2016 DOI10.12753/2066-026X-16-017;
4. **L. GHERMAN,** M Pearsica, I Cîrciu, C Rotaru: *Two fluxes multistage induction coilgun;* Innovative Ideas in Science 2017, Baia Mare, Romania: IOP Conference Series: Materials Science and Engineering Volume 200; ISBN: 9781510840966;
5. **L. GHERMAN,** C. STRÎMBU, C. CONSTANTINESCU, L. E. MIRON: *The age of air defense systems.* 2017 International Conference on Military Technologies (ICMT), Brno. 2017, pp. 701-705. DOI: 10.1109/MILTECHS.2017.7988847;
6. V. PRISACARIU, I. CÎRCIU, D. LUCULESCU, **L. GHERMAN:** *Analysis of the small flying wings performances in the morphing concept.* MATEC Web Conf., 121 (2017) 01012. DOI: <https://doi.org/10.1051/mateconf/201712101012>;
7. Constantin ROTARU, Gabriel RĂDUCANU, Vasile PRISACARIU, and **Laurian GHERMAN:** *Time dependent and multidimensional effects of the detonation combustion waves;* AIP Conference Proceedings 2046, 020077; DOI: 10.1063/1.5081597; 2018;
8. **GHERMAN, L.,** ROTARU, C., PEARSICA, M. *Electromagnetic launch system based on a Halbach array configuration.* Scientific Journal of Silesian University of Technology. Series Transport. 2018, 101, 59-66. ISSN: 0209-3324. DOI: <https://doi.org/10.20858/sjsutst.2018.101.6.>; 2018;
9. MIRON E.L., NAGY D., **GHERMAN L.,** MARINOV M. *Systems for aerial surveillance and security– a step forward for air force academies.* Scientific Journal of Silesian University of Technology. Series Transport. 2020, 106, 117-124. ISSN: 0209-3324. DOI: <https://doi.org/10.20858/sjsutst.2020.106.10>;
10. **GHERMAN, L.,** CHIOSEAU, B., GHICIUC, R. *New design of an electromagnetic launch system for tactical UAVs.* Scientific Journal of Silesian University of Technology. Series Transport. 2020, 108, 45-51. ISSN: 0209-3324. DOI: <https://doi.org/10.20858/sjsutst.2020.108.5>;

D. Lucrări indexate BDI publicate

1. PEARSICĂ, M.; RAȚIU, I. G., CÂRSTEA, C.G., CONSTANTINESCU, C.G., STRÎMBU, C., **GHERMAN, L.:** *Heat transfer modeling and simulating for laser beam irradiation with phase transformations,* WSEAS Transactions on Mathematics, Vol. 7, No. 11, November 2008, pp 2174 – 2180; ISSN 676-685;
2. PEARSICĂ, M., STRÎMBU, C., CONSTANTINESCU, C.G., **GHERMAN, L.:** *De motor speed control using PWM method.* Review of Air Force Academy "Henri Coandă" No. 2/2008, Braşov, pp 27-30, ISSN 1842-9238;



3. **GHERMAN, L:** *Warfare in the information age*. Journal of Defense Resources Management (JoDRM), **2010**; ISSN 2247-6466;
4. **GHERMAN, L:** *The Second Revolution in Military Affairs*. Journal of Defense Resources Management (JoDRM), **2011**; ISSN 2247-6466;
5. **GHERMAN, L.:** *An electromagnetic launch system for UAVs*. Review of Air Force Academy “; No. 2/**2012**. ISSN 1842-9238;
6. **GHERMAN, L.:** *Information age view of the OODA loop*. Review of Air Force Academy “; No. 1/**2013**. ISSN 1842-9238;
7. **GHERMAN, L.:** *Electronic warfare in information age*. Review of Air Force Academy No. 3/**2014**. ISSN 1842-9238;
8. PEARSICĂ. M. **GHERMAN, L** CONSTANTINESCU, C.G.,MIHAL, C.: *Particularities of power laser electrical energy supply*. Review of Air Force Academy No. 2/**2014**. ISSN 1842-9238.
9. **GHERMAN, L:** *Electromagnetic spectrum domination*. Review of Air Force Academy No. 1/**2015**. ISSN 1842-9238;
10. **GHERMAN, L:** *Halbach Array Launch System*. Review of Air Force Academy No. 1/**2016**. ISSN 1842-9238;
11. **GHERMAN, L.;** PEARSICĂ. M.; STRÎMBU, C.; CONSTANTINESCU, C.G.: *A Theoretical Approach of a New Electromagnetic Launch System*. Review of Air Force Academy No. 2/**2016**. ISSN 1842-9238. DOI: 10.19062/1842-9238.2016.14.2.9.
12. MOȘOIU, O. **GHERMAN, L.** BĂLĂCEANU, I: *Collaborative Systems For The Protection of Critical Infrastructures - Component of European Security Strategy*. The International Scientific Conference eLearning and Software for Education; Bucharest Vol. 1: 64-71. (**2017**) DOI: 10.12753/2066-026X-17-010;
13. **GHERMAN, L.:** *Defence Architecture Based on Information Age Ooda Loop*. Review of the Air Force Academy, 3/**2017**: 111-118. DOI:10.19062/1842-9238.2017.15.3.13.
14. Cătălin MIHAL, Marian PEARSICA, **Laurian GHERMAN:** *A Novel Data Mining Procedure Generating A Typical Electrical Energy Daily Shape Based on Values from Smart Metering*; Review of Air Force Academy “Henri Coandă” No. 3/**2018**. Brașov, pp 65, ISSN 1842-9238;
15. **GHERMAN, L., & GHICIUC, R. (2019)**. Linear electromagnetic accelerator. *Safety & Defense*, 5(2), 17-21. <https://doi.org/10.37105/sd.50>;
16. Ecaterina Liliana MIRON, Zhivo PETROV, Daniela NAGY, **Laurian GHERMAN:** General Overview of The Project “Systems for Aerial Surveillance and Security”, International Conference Reic’19 Redefining Community in Intercultural Context Vlora, 2-4 May **2019**; ISSN 2285-2689;
17. Ecaterina Liliana MIRON, Daniela NAGY, **Laurian GHERMAN**, Marin MARINOV; Modernization of Air Force Education – ‘Systems for Aerial Surveillance and Security’ Project; Review of the Air Force Academy, 2/**2020**: 9-16. DOI: 10.19062/1842-9238.2020.18.2.1;
18. **Laurian GHERMAN**, Cosmina ROMAN, Małgorzata ŻMIGRODZKA (**2021**); Landmarks in Romanian History of Anti-Aircraft Artillery – The Anti-Aircraft Gun Director Computer. “Bungescu Ion”; *Safety & Defense*, 7(1), 17-21. <https://doi.org/10.37105/sd.50>;
19. **Laurian GHERMAN**, Marian Pearsica: *Electric Generator Powered by a Gyroscopic System - A Theoretical Approach*. Review of the Air Force Academy, 1/**2021**: 27-36. DOI: 10.19062/1842-9238.2021.19.1.3;

