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Domeniul: Inginerie Industrială

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

1. **Petrișor, S.M.**, Simion, M., Bârsan, Gh., Hancu, O., „*Humanitarian Demining serial-tracked robot: design and dynamic modeling*”, *Machines* 2023, vol. 11, issue 5, 548, <https://doi.org/10.3390/machines11050548>, Special Issue Motion Optimization of Mechanical Structures, ISSN 2075-1702. (Indexed: Web of Science Core Collection – SCIE, BDI: PubMed, Index Scopus, Elsevier Databases, DOAJ, EBSCO, ProQuest, etc.) (IF 2022 2.6) (Zona Q2, Top 63) (WOS:000996857600001)
2. **Petrișor, S.M.**, Simion, M., „*Aspects regarding the elaboration of the geometric, kinematic and organological study of a robotic technological product „Humanitarian PetSim Robot” used as an avant-garde element of the human factor in high risk areas*”, *Proceedings of the 2020 Intelligent Systems and Applications Conference (IntelliSys)* Volume 1, AISC1250, pp. 322-334, https://doi.org/10.1007/978-3-030-55180-3_24, published in *Advances in Intelligent Systems and Computing Journal* (ISBN 978-3-030-55180-3), Springer Nature Switzerland AG 2021. (Indexed: EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink)
3. **Petrișor, S.M.**, Coroiu, A.R., „*Contemporary engineering perspectives reflected in the practical realization and implementation of the avangard Robo SilMih robotized technological demonstrator*”, *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, vol. 65, Issue IV, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2000/1585>, November, 2022, pp.: 443-450, ISSN 1221-5872. (Indexed: in Emerging Sources Citation Index, Clarivate Analytics/ex. Thomson Reuters, BDI: Index Copernicus, OCLC WorldCat) (2022)JCI-ESCI 0,06, IF 2022 0.3) (WOS:000936379500003)
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5. **Petrișor, S.M.**, Todoș, C., „*Drone for artillery reconnaissance missions*”, *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, vol. 66, Issue II, June, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2132/1684>, 2023, pp.: 199-208, ISSN 1221-5872. (Indexed: in Emerging Sources Citation Index, Clarivate Analytics/ex. Thomson Reuters, BDI: Index Copernicus, OCLC WorldCat) (2022)JCI-ESCI 0,06, IF 2022 0.3) (WOS:001044548800005)
6. Mititelu, I., **Petrișor, S.M.**, Savin, A., Șturm, R., Bergant, Z., Steigmann, R., Stanciu, D.M., Bârsănescu, P.D., „*Multi-criteria evaluation of the failure of CFRP laminates for frames in the automotive industry*”, *Polymers* 2022, 14(21), 4507, <https://doi.org/10.3390/polym14214507>, Special Issue Carbon Fiber Composites: processing, Structure and Properties, ISSN 2073-4360. (Indexed: Web of Science Core Collection – SCIE, BDI: PubMed, Index Scopus, Elsevier Databases, DOAJ, EBSCO, ProQuest, etc.) (IF 2022 5) (Zona Q1, Top 18) (WOS:000881517600001)
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Coordonator științific: Prof. univ. dr. ing. dipl. Viorel ISPAS
2. **Petrișor, S.M.**, „*Aportul Colaborativ în Spațiul Operațional Genistic al unor Produse Tehnologice Robotizate*”, Teză de abilitare, Universitatea din Oradea, 130 pg., Ianuarie 2024, OME nr. 4218/10.04.2024, CNATDCU & ME, București.
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3. **Petrișor, S.M.**, Bârsan, Gh., Simion, M., Virca, I., Moșteanu, D.E., „*Robot pe șenile destinat operațiilor de deminare umanitară*”, **Brevet de invenție Nr. RO 132301B1** / 30.12.2021, Nr. C.B.I.: **a 2017 00562**, Clasă internațională: F41H11/16, Nr. publicare: 132301 A0, Dată depozit: 10.08.2017, Dată publicare: 29.12.2017, Solicitant: Academia Forțelor Terestre „Nicolae Bălcescu”, Buletin Oficial de Proprietate Industrială (BOPI), Secțiunea Brevete de Invenție, Nr. 12/2017, ISSN 2065-2100, pag. 18, B.I.: Buletin Oficial de Proprietate Industrială (BOPI), Secțiunea Brevete de Invenție, Nr. 12/2021, ISSN 2065-2100, pag. 90, OSIM București. (ISI Thomson Reuters – Web of Science, Clarivate Analytics, Accession number: DIIDW:201790242B)
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9. **Petrișor, S.M.,** „*Perspective genistice contemporane – aportul colaborativ în spațiul operațional al unor produse tehnologice robotizate brevetate*”, Editura Academiei Forțelor Terestre „Nicolae Bălcescu” Sibiu, 2022, ISBN 978-973-153-484-8, 139 pg.
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ARTICOLE PUBLICATE IN VOLUME ALE CONFERINTELOR INTERNAȚIONALE

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ALTE LUCRĂRI / REALIZĂRI RELEVANTE

1. **Petrișor, S.M.**, „Realizarea practică și implementarea unui produs tehnologic de minirobot șenilat cu acționare electrică obținută prin captare de energie solară în domeniul genistic” (AVANGARDROBO), Director Proiect, Contractul de cercetare PSCD prin competiție de granturi la nivel MAPn, poziție plan proiect: 63/2020 & 4/2021 & 3/2022, program derulat în perioada 2020 - 2022 (36 luni), valoare: 66000 lei (13415 Euro), Academia Forțelor Terestre „Nicolae Bălcescu” Sibiu.

Realizarea practică, la scară 1:1, a unui produs tehnologic brevetat de minirobot șenilat cu acționare electrică obținută prin captare de energie solară destinat detectării și asanării/deminării UXO (muniții explozive neexplodate) și IED (dispozitive explozive improvizate).

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Calitatea de președinte și organizator principal al Salonului Internațional al Inovării și Cercetării Științifice Studențești – Cadet INOVA, Edițiile I-IX (2016-2024), eveniment expozițional marcă OSIM cu volume aferente fiecărei ediții.

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