

Lista lucrărilor publicate și prezentate

A. Articole publicate în reviste cotate ISI

[1] A new insight into the geometric models and workspace volume of the 6RSS manipulator by disjunction of the translational and orientation subspaces, Author(s): **Milica, L**; Nastase, A; Andrei, G, Source: MECHANISM AND MACHINE THEORY [Volume 121](#), Pages: 804-828 DOI: 10.1016/j.mechmachtheory.2017.12.004 Published: MAR 2018, WOS:000425099500052, ISSN: 0094-114X, FI: 2.796, in anul publicarii, 4.93 in 2023.

<https://www.sciencedirect.com/science/article/pii/S0094114X17304676>

[2] Optimal path planning for a new type of 6(R)under-barSS parallel robot based on virtual displacements expressed through Hermite polynomials, Author(s): **Milica, L**; Nastase, A; Andrei, G, Source: MECHANISM AND MACHINE THEORY [Volume 126](#), Pages: 14-33 DOI: 10.1016/j.mechmachtheory.2018.03.015 Published: AUG 2018, WOS:000432783700002, ISSN: 0094-114X, FI: 2.796 in anul publicarii, 4.93 in 2023.

<https://www.sciencedirect.com/science/article/pii/S0094114X17318001>

[3] A novel algorithm for absorbed power estimation of HEXA parallel mechanism, using an extended inverse dynamic model, **Milica, L**, Nastase, A, Andrei, G., Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multibody Dynamics, Volume: 234 issue: 1, page(s): 185-197, Issue published: March 1, 2020, WOS:000496690800001, ISSN: 1464-4193, FI: 1.68, in anul publicarii, 1.99 in 2023.

<https://doi.org/10.1177/1464419319881305>

B. Articole publicate în volumele unor manifestări științifice indexate ISI Proceedings

[4] **Milica, L** (Milica, Lucian); Andrei, G (Andrei, Gabriel), Particularities of fully-parallel manipulators in 6-DOFs robots design: a review of critical aspects, Edited by: Oancea G; Dragoi MV, Source: 4TH INTERNATIONAL CONFERENCE ON COMPUTING AND SOLUTIONS IN MANUFACTURING ENGINEERING 2016 - COSME'16 Book Series: MATEC Web, of Conferences Volume: 94, Conference Date: NOV 03-04, 2016, Conference Location: Brasov, ROMANIA <https://doi.org/10.1051/matecconf/20179405003>

[5] **Milica, L** (Milica, Lucian); Andrei, G (Andrei, Gabriel), Inference of power loss in spherical joints of the 6(R)under-barSS parallel mechanism, Edited by: Balci N, Source: MODERN TECHNOLOGIES IN MANUFACTURING (MTEM 2017 - AMATUC) Book Series: MATEC Web

of Conferences Volume: 137, Conference Date: OCT 12-13, 2017, Conference Location: ClujNapoca, ROMANIA, <https://doi.org/10.1051/matecconf/201713704002>

[6] Milica, L., Năstase, A., Andrei, G.: Kinematic analysis of a new 6RSS parallel manipulator performing a certain working operation, The 8th International Conference on Advanced Concepts in Mechanical Engineering, Iași, 2018, România, IOP Conf. Series: Materials Science and Engineering **444** (2018) 052012

<https://iopscience.iop.org/article/10.1088/1757-899X/444/5/052012>

<https://doi.org/10.1088/1757-899X/444/5/052012>

[7] Milica, L., Andrei, G Influence of the flywheel profile on the energy storage capacity of the KERS system, IOP Conference Series: Materials Science and Engineering, Volume 997, The 9th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2020 4-5 June 2020, Iași, Romania.

[doi:10.1088/1757-899X/997/1/012123](https://doi.org/10.1088/1757-899X/997/1/012123)

[8] Milica, L., Năstase, A., Andrei, G.: Identification and viewing of singularities for a new type of 6RSS parallel mechanism, The 10th International Conference of Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation (PRASIC 2018), Brașov, 2018, România, IOP Conference Series: Materials Science and Engineering [Volume 514.](#), Issue 1, 26 June 2019, Article number 012033

DOI: [10.1088/1757-899X/514/1/012033](https://doi.org/10.1088/1757-899X/514/1/012033)

[9] Milica, L., Năstase, A., Andrei, G.: Survey on the kinematics of a 6RSS parallel robot based on manipulability indices, "The 23rd Edition of Innovative Manufacturing Engineering & Energy International Conference", (IMANEE 2019) Pitesti, România, 2019.

Doi:10.1088/1757-899X/564/1/012049

<https://iopscience.iop.org/article/10.1088/1757-899X/564/1/012049>

[10] Milica, L., Năstase, A., Andrei, G.: Determining workspace parameters for a new type of 6RSS parallel manipulator based on structural and geometric models, MATEC Web of Conferences, vol. **112**, (2017), WOS:000579349600085, **ISSN:** 2261236X

DOI: [10.1051/matecconf/201711205010](https://doi.org/10.1051/matecconf/201711205010)

C. Articole prezentate în cadrul unor conferințe internaționale neindexate

[11] Milica, L., Andrei, G.: The calculation of the power losses from the spherical joints for the 6RSS parallel mechanism, The 5th Scientific Conference of Doctoral Schools of UDJG, Galati, 2017, România. <http://www.cssd-udjg.ugal.ro/index.php/2017/abstracts-2017>

[12] **Milica, L.**, Amortilă, V., Andrei, G.: Models of kinematic analysis applied to complex parallel mechanisms, The 6th Scientific Conference of Doctoral Schools of UDJG, Galati, 2018, România, <http://www.cssd-udjg.ugal.ro/index.php/abstracts-2018>

[13] **Milica, L., Milica, A.** Path Planning for an HEXA Parallel Mechanism using a Modified PSO Algorithm, Reserch Square, 2021, ISSN: 2693-5015, DOI: <https://doi.org/10.21203/rs.3.rs-1038719/v1>

D. Indrumare laborator/carte aplicatii format tiparit sau electronic

[14] **Milica, L.**, Andrei, G., 2018, Informatică aplicată. Inventor în imagini. Aplicații, Editura GUP, Galați, ISBN 978-606-696-128-8, 331 pagini.

[15] **Milica, L.**, 2022, CAD Avansat. CATIA în imagini. I-Modelare solidă, Galati University Press, ISBN 978-606-696-237-7, 429 pagini

[16] **Milica, L.**, 2023, CAD Avansat. CATIA în imagini. Modelare cinematică, metode de parametrizare și optimizare, Galati University Press, 293 pagini.

E. Monografie

[16] **Milica, L.**, Analiza geometrică, cinematică și dinamică a unui nou mecanism paralel de tip 6RSS, Editura Galati University Press, Galați 2021