

## LISTA LUCRĂRILOR ȘTIINȚIFICE

### 1. Lucrări științifice publicate în reviste indexate ISI

1. A. -M. -F. Luputi, E. -C. Lovasz, M. Ceccarelli, C. Sticlaru, A. -M. Scurt(Stoian), Kinematic study of feasibility of geared planar parallel manipulator, Journal of Mechanical Engineering Science, Volume 236, Issue 18, Page 10001-10016, June, 2022
2. T. Demjen, E. -C. Lovasz, M. Ceccarelli, C. Sticlaru, A. -M. -F. Luputi, A. Oarcea, D. -C. Silaghi-Perju, Design of the five-bar linkage with singularity-free workspace, Journal Robotica, Volume 41, Issue 11, Page 3361-3379, November, 2023
3. A. M. F. Luputi, M. Salinschi, M. Babescu, H. Ciocârlie, The Dependence Between the Optimal Mechanical Angular Speed and the Variable Wind Speed from an Energetic Point of View, REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, Vol.69, Issue:1, March 2024.

### 2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate ISI Proceedings

1. A. M. F. Luputi, M. Babescu, H. Ciocârlie, Optimal Energetic Zone of Wind Turbine for Sinusoidal Wind Speed, IEEE 15th SACI, Timișoara (Romania), May 19-21, 2021
2. A. M. F. Luputi, M. Babescu, H. Ciocârlie, The Dependence Between Power of the Electric Generator and Variable Wind Speed, IEEE 16th SACI, Timișoara (Romania), May 25-28, 2022
3. A. Luputi, C. Mnerie, V. -F. Duma, Experimental Setup for an Optical Micrometer with a Polygonal Mirror-based Laser Scanner, IEEE 12th SACI, Timișoara (Romania), May 17-19, 2018
4. A. Oarcea, A. -M. -F. Luputi, V. Cobilean, S. -D. Stan, E. -C. Lovasz, Kinematic performance analysis of a 3-R(RPRGR)RR planar parallel robot, I4SDG, 2021
5. T. Demjen, E. -C. Lovasz, M. Ceccarelli, C. Sticlaru, A. -M. -F. Luputi, Analytical Synthesis of Five-Bar Linkage used for 3D Printer Structure, IFToMM Italy, 2022

### 3. Lucrări științifice publicate în reviste de specialitate indexate BDI

1. A. -M. -F. Luputi, E. -C. Lovasz, M. Ceccarelli, C. Sticlaru, A. -M. Stoian, Kinematic Simulation of a Geared Planar Parallel Manipulator, MEDER, 2021

### 4. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI

1. A. -M. -F. Lupuți, S. M. Grigorescu, E. -C. Lovasz, C. Sticlaru, I. Cărăbaș, *Kinematics of the planar parallel Manipulator using Geared Slider-Crank with linear Actuation as legs 3-R(PRRGR)RR*, MTM & Robotics, 2020
2. S. M. Grigorescu, A. -M. -F. Lupuți, I. Maniu and E. -C. Lovasz, *Novel Planar Parallel Manipulator using Geared Slider-Crank with Linear Actuation as Connection Kinematic Chain*, EuCoMeS, 2020

## **5. Lucrări științifice publicate în volumele unor manifestări științifice internaționale (Proceedings) din străinătate**

## **6. Lucrări științifice publicate în volumele unor manifestări științifice**

1. A. Luputi, C. Mnerie, V. -F. Duma, Measurements methods of a polygon-based scanning system for dimensional evaluations, Proc. 7th ISREIE, Series: Engineering, Arad (Romania), May 17-19, 2018
2. A. Luputi, C. Mnerie, V. -F. Duma, Robotic arm controlled by Arduino, Proc. 7th ISREIE, Series: Engineering, Arad (Romania), May 17-19, 2018
3. A. Luputi, C. Mnerie, V. -F. Duma, Polygon mirror-based optical micrometers : Programming aspects, Proc. 8th ISREIE, Series : Engineering, Arad (Romania), May 24 – 25, 2019
4. A. Luputi, SLAM algorithms for odometry, Proc. 8th ISREIE, Series : Engineering, Arad (Romania), May 24 – 25, 2019
5. E. Dobrin, A. -M. -F. Luputi, E. V. Muller, A. M. Stanciu, The Real and the Maximum Power of a Wind Turbine, which Functions at Variable Wind Speeds Over Time, CNAE, Timișoara, May 12 – 13, 2022
6. E. Dobrin, A. -M. -F. Luputi, E. V. Muller, A. M. Stanciu, Energy, in the Danube Bottleneck Iron Gate Hydropower Plant I (“Clisura Dunării”-“Porțile de Fier I”), CNAE, Timișoara, May 12 – 13, 2022

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