

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Crenganiș, Mihai, *“Contribuții privind conducerea și controlul unui braț robotic antropomorf”*, Teză de doctorat (Inginerie Industrială), Universitatea “Lucian Blaga” din Sibiu, 200 pg., conducător științific prof.dr.ing. Octavian Bologa, 2013.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Mihai Crenganiș și Anca Lucia Chicea, Redundanta robotilor seriali și industriali, Editura Universității Lucian Blaga, ISBN 978-606-12-1782-3, 2020.
2. Crenganiș M., Chicea A., „Mecatronica roboților și manipuloarelor industriale”, Editura Universității Lucian Blaga, ISBN 978-606-12-1573-7, 2018.
3. Anca Lucia Chicea, Mihai Crenganiș, „Bazele sistemelor mecatronice”, Editura Universității Lucian Blaga ISBN 978-606-12-1482-2, 2017.
4. Telea Dorin, Crenganiș Mihai “Roboți Industriali”, Editura Universității Lucian Blaga, ISBN 978-606-12-1422-8 , 2016.
5. Crenganiș, Mihai *“Contribuții privind conducerea și controlul roboților antropomorfi, redundanți cu topologie serială”*, Editura Universității Lucian Blaga, pp. 0-212, 212 pg., pp. 93-100, ISBN 978-606-12-1158-6, 2015.

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

1. A Bârsan, SG Racz, R Breaz, M Crenganiș, “Dynamic analysis of a robot-based incremental sheet forming using Matlab-Simulink Simscape™ environment”, Materials Today: Proceedings, 2022;
2. M Tera, RE Breaz, SG Racz, M Crenganiș, CE Gîrjob, “Reducing the environmental impact of manufacturing by means of alternative processes—a material efficiency analysis”2021 International Automatic Control Conference (CACCS), 1-5, 2021;
3. M Crenganiș, RE Breaz, SG Racz, CM Biriș, CE Gîrjob, AI Maroșan, “Development of a lightweight multipurpose high mobility vehicle for use in confined spaces”, 2021 International Automatic Control Conference (CACCS), 1-6, 2021;
4. M Crenganiș, A Barsan, M Tera, A Chicea, “Dynamic analysis of a five degree of freedom robotic arm using MATLAB-Simulink Simscape”, MATEC Web of Conferences 343, 2021;

5. M Crenganis, C Biris, C Gîrjob, "Mechatronic Design of a Four-Wheel drive mobile robot and differential steering", MATEC Web of Conferences 343, 2021;
6. A I Maroșan, G Constantin, A Bârsan, M Crenganiș, C Gîrjob, Creating an ethernet communication between a Simatic S7-1200 PLC and Arduino Mega for an omnidirectional mobile platform and industrial equipment, IOP Conference Series: Materials Science and Engineering, 2020.
7. A. Bârsan, M. Crenganis, A. I. Marosan and A. L. Chicea, Tool holder working unit used for robot-based incremental sheet forming, IOP Conference Series: Materials Science and Engineering, 2020.
8. Bârsan, A., Crenganiș, M., Popp, M. O., Rusu, G. P., Roboforming - Investigations Regarding Forming Forces in SPIF Process, Acta Universitatis Cibiniensis. Technical Series, 2020.
9. CRENGANIS Mihai, CSISZAR Akos, A dynamic model for KUKA KR6 in SPIF processes, ICAMaT 2019.
10. Melania Tera, Claudia–Emilia Gîrjob, Cristina–Maria Biriș, Mihai Crenganiș, Modular fastening system and tool–holder working unit for incremental forming, MATEC Web of Conferences, vol 299, 2019.
11. Mihai Crenganiș, Melania Tera, Cristina Biriș, Claudia Gîrjob, Dynamic Analysis of a 7 DOF Robot Using Fuzzy Logic for Inverse Kinematics Problem, Procedia Computer Science, pp. 298-306, Elsevier, 2019.
12. Radu Eugen Breaz, Octavian Bologna, Sever Gabriel Racz, Mihai Crenganiș, Selecting between CNC turning centers using a combined AHP and fuzzy approach, Procedia Computer Science, pp. 290-297, Elsevier, 2019.
13. Mihai Crenganis , O Bologna, Serial Robot For Multi-Purpose Applications.- buletin stiintific, 2018.
14. Mihai CRENGANIS, Alexandru BÂRSAN, Sever-Gabriel RACZ, Single Point Incremental Forming Using Kuka Kr6-2 Industrial Robot - A Dynamic Approach ICMAS 2018.
15. Mihai Crenganis, Al Chicea, O Bologna, Kinetostatic analysis of a redundant serial robot. Academic Journal Of Manufacturing Engineering, 2017.
16. Dm Volar, O Bologna, Mihai Crenganiș, Sg Racz Application Of Modern Experimental Strategy For Parameters Of A Reconfigurable Die - Bulletin Of The Transilvania University Of Brasov, 2017
17. Mihai Crenganis , Controlling Low Cost Serial Manipulators With A Microcontroller Board.- Academic Journal Of Manufacturing Engineering, 2016
18. Mihai Crenganis, O Bologna , Implementing Pid Controller For A Dc Motor Actuated Mini Milling Machine.- Academic Journal Of Manufacturing Engineering, 2016
19. Mihai Crenganis, R Breaz, G Racz, O Bologna Adaptive Neuro-Fuzzy Inference System For Kinematics Solutions Of Redundant Robots, Communications And Control (icccc), 2016
20. Mihai Crenganis, Re Breaz, G Racz, O Bologna Zigler-Nicols Pid Tuning Method For Position Control Of A Mobile Robot - Applied Mechanics And Materials, 2016;
21. O Bologna, Re Breaz, Sg Racz, Mihai Crenganiș Using The Analytic Hierarchy Process (Ahp) In Evaluating The Decision Of Moving To A Manufacturing Process Based Upon Continuous 5 Axes Cnc Machine-Tools - Procedia Computer Science, 2016
22. O Bologna, Re Breaz, Sg Racz, Mihai Crenganiș Decision-Making Tool For Moving From 3-Axes To 5-Axes Cnc Machine-Tool- procedia computer science, 2016
23. Mihai Crenganis, O Bologna Another Approach For Redundancy Resolution Of A 7 Dof Robotic Arm - Applied Mechanics And Materials, 2015
24. Crenganiș Mihai, Bologna Octavian, "Implementing PID Controller for A Mobile Platform", Buletinul AGIR, Supliment 1/2015, pp. 143-148, ISSN-L 1224-7928, 2015.
25. Crenganiș Mihai, Bologna Octavian, "Efficient Method for Redundancy Resolution of a 7 DOOF Manipulator", Buletinul AGIR, Supliment 1/2015, pp. 222-229, ISSN-L 1224-7928, 2015.

26. Crenganiş Mihai, Bologa Octavian, “*Developing a Mobile Platform for EUROBOT 2015*”, Buletinul AGIR, Supliment 1/2015, pp. 230-235, ISSN-L 1224-7928, 2015.
27. Crenganiş Mihai, Bologa Octavian, “*PID CONTROLLER FOR A DIFFERENTIAL STEERING MOBILE PLATFORM*”, Buletinul AGIR, pp. 158-163, ISSN-L 1224-7928, 2015.
28. Crenganiş, Mihai, Breaz Radu, Racz Gabriel, Bologa Octavian, „*Inverse Kinematics for a 7 DOF Robotic Arm Using the Redundancy Circle and ANFIS Models*”, Applied Mechanics and Materials, Vol 657, Chişinău, Republica Moldova, pp. 823-828, 2014.
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33. Crenganiş, Mihai, Breaz Radu, Racz Gabriel, Bologa Octavian, „*Contributions Regarding the Inverse Kinematics of a 7 DOF Redundant Robotic Arm Using ANFIS*”, ICSTCC 2012, ISBN 978-1-4673-4534-7, 2012.
34. Crenganiş, Mihai, Breaz Radu, Racz Gabriel, Bologa Octavian, „*The Inverse Kinematics Solutions of a 7 DOF Robotic Arm Using Fuzzy Logic*”, ICIEA 2012, pp. 518-523, ISBN 978-1-4577-2118-2, 2012.

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

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Crenganiş Mihai, Bologa Octavian, “*Sustainable Development Through Photovoltaic Energy*”, Buletinul AGIR, Supliment 1/2015, pp. 93-100, ISSN-L 1224-7928, 2015.
2. Crenganiş, Mihai, Breaz Radu, Racz Gabriel, Bologa Octavian, „*The Kinematic Solution of a Redundant Robotic Arm Using Matlab Simmechanics and ANFIS Models*”, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Tomul LIX (LXIII), Fascicula 3, pp 33-40 ISSN 1011-2855, 2013.
3. Breaz Radu, Racz Gabriel, Bologa Octavian, Crenganiş, Mihai, „*Comparative study regarding the generation of circular profiles through cutting*”, Welding and Material Testing, Nr. 2/2013, pp 19-23, ISSN 1453-0392, 2013.
4. Chera Ionut, Bologa Octavian, Racz Gabriel, Breaz Radu and Crenganiş Mihai, „*FEM Researches Regarding Incremental Forming Process*”, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXII (XII), Nr. 2013/1, pp. 53-38, ISSN 1583-0691, 2013.
5. Crenganiş Mihai, Bologa Octavian, “*Geothermal Energy*”, Buletinul AGIR, ISSN 1224-7928, 2012.
6. Crenganiş Mihai, Bologa Octavian, “*The city of alternative energy*”, Buletinul AGIR, ISSN 1224-7928, 2012.

7. Crenganiş, Mihai, Breaz Radu, Racz Gabriel, Bologa Octavian, „*The Inverse Kinematics Solutions of a 7 DOF Robotic Arm Using Fuzzy Logic*”, Buletinul Institutului Politehnic din Iaşi, Secţia Construcţiei de Maşini, Tomul LIX (LXII), Fascicula 3, pp 40-47, ISSN 1011-2855, 2011.

E. Brevete obţinute în întreaga activitate

1.

Data:

Semnătura:
Crenganis Mihai