Radu-Eugen Breaz

List of Publications by Year
in descending order

56	252	1163117 8	1199594 12
papers	citations	h-index	g-index

56	56	56	157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrating Trajectory Planning with Kinematic Analysis and Joint Torques Estimation for an Industrial Robot Used in Incremental Forming Operations. Machines, 2022, 10, 531.	2.2	2
2	Selecting the Safest CNC Machining Workshop Using AHP and TOPSIS Approaches. Safety, 2021, 7, 27.	1.7	4
3	ONLINE TEACHING ACTIVITIES DUE TO COVID-19 - CASE STUDY FOR THE MECHATRONICS STUDY PROGRAMME. , 2021, , .		0
4	Hazards That Can Affect CNC Machine Tools during Operationâ€"An AHP Approach. Safety, 2020, 6, 10.	1.7	2
5	Advanced Techniques used in Numerical Simulation for Deep-drawing Process. MATEC Web of Conferences, 2019, 290, 03012.	0.2	1
6	Evaluating Safety Systems for Machine Tools with Computer Numerical Control using Analytic Hierarchy Process. Safety, 2019, 5, 14.	1.7	8
7	Reducing the Risks during the Purchase of Five-Axis CNC Machining Centers Using AHP Method and Fuzzy Systems. Sustainability, 2019, 11, 315.	3.2	4
8	Simulated 3-axis versus 5-axis Processing Toolpaths for Single Point Incremental Forming. IOP Conference Series: Materials Science and Engineering, 2019, 564, 012023.	0.6	3
9	Selecting between CNC turning centers using a combined AHP and fuzzy approach. Procedia Computer Science, 2019, 162, 290-297.	2.0	2
10	Positioning system for assembly and manufacturing tasks. MATEC Web of Conferences, 2019, 299, 02002.	0.2	0
11	Incremental forming â€“ CAE/CAM approaches and results. IOP Conference Series: Materials Science and Engineering, 2019, 591, 012065.	0.6	2
12	Processing strategies for single point incremental formingâ€"a CAM approach. International Journal of Advanced Manufacturing Technology, 2019, 102, 1761-1777.	3.0	16
13	Using an Adaptive Network-based Fuzzy Inference System to Estimate the Vertical Force in Single Point Incremental Forming. International Journal of Computers, Communications and Control, 2019, 14, 63-77.	1.8	6
14	Using the Analytic Hierarchy Process (AHP) and fuzzy logic to evaluate the possibility of introducing single point incremental forming on industrial scale. Procedia Computer Science, 2018, 139, 408-416.	2.0	17
15	Incremental Forming of Titanium Ti6Al4V Alloy for Cranioplasty Platesâ€"Decision-Making Process and Technological Approaches. Metals, 2018, 8, 626.	2.3	23
16	STUDENT COMPETITIONS, A USEFUL TOOL FOR ENHANCING SKILLS AND COMPETENCES. , 2018, , .		0
17	RAISING THE INTEREST OF HIGH SCHOOL GRADUATES FOR MECHATRONICS AND ROBOTICS UNIVERSITY STUDY. EDULEARN Proceedings, 2018, , .	0.0	0
18	SETTING UP A NEW MASTER PROGRAM IN THE FIELD OF MECHATRONICS AT LUCIAN BLAGA UNIVERSITY OF SIBIU. , 2018, , .		0

#	Article	IF	Citations
19	Selecting industrial robots for milling applications using AHP. Procedia Computer Science, 2017, 122, 346-353.	2.0	30
20	Selecting between CNC milling, robot milling and DMLS processes using a combined AHP and fuzzy approach. Procedia Computer Science, 2017, 122, 796-803.	2.0	13
21	5-axes modular CNC machining center. MATEC Web of Conferences, 2017, 112, 06004.	0.2	1
22	Considerations regarding the use of technological equipment for indexed and continuous multi-axes machining. MATEC Web of Conferences, 2017, 121, 08003.	0.2	0
23	Using the modern CNC controllers capabilities for estimating the machining forces during the milling process. MATEC Web of Conferences, 2017, 137, 04003.	0.2	2
24	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, 91, 683-689.	2.0	6
25	Decision-making Tool for Moving from 3-axes to 5-axes CNC Machine-tool. Procedia Computer Science, 2016, 91, 184-192.	2.0	14
26	Adaptive neuro-fuzzy inference system for kinematics solutions of redundant robots. , 2016, , .		2
27	IS ENGINEERING A MALE SPECIFIC PROFESSION AND HOW THIS ISSUE IS ADDRESSED AT LUCIAN BLAGA UNIVERSITY OF SIBIU. INTED Proceedings, 2016, , .	0.0	0
28	Researches Regarding the Use of Fuzzy Controllers within CNC Feed Drives. Applied Mechanics and Materials, 2015, 772, 229-234.	0.2	0
29	Developing a Knowledge Base about the Technological Forces within the Asymmetric Incremental Forming Process. Key Engineering Materials, 2015, 651-653, 1115-1121.	0.4	4
30	Using Serial Industrial Robots and CAM Techniques for Manufacturing Prosthetic Devices. Applied Mechanics and Materials, 2015, 762, 313-318.	0.2	4
31	A Fuzzy-based Decision Support Tool for Engineering Curriculum Design. International Journal of Computers, Communications and Control, 2015, 10, 43.	1.8	4
32	Researches Regarding the Usage of Titanium Alloys in Cranial Implants. Applied Mechanics and Materials, 2014, 657, 173-177.	0.2	5
33	Contributions Regarding Incremental Forming Process of Bimetallic Sheets. Applied Mechanics and Materials, 2014, 657, 178-182.	0.2	1
34	Theoretical and Experimental Researches Regarding Multilayer Materials Used for Incremental Forming. Applied Mechanics and Materials, 2014, 555, 413-418.	0.2	0
35	Researches Regarding Optimising the Contouring Precision of CNC Laser Cutting Machines. Applied Mechanics and Materials, 2014, 555, 580-585.	0.2	6
36	Computer assisted techniques for the incremental forming technology. , 2013, , .		1

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37	Comparative Study by Numerical Analysis on the Formability of Deep-Drawn Tailor-Welded Blanks. Advanced Materials Research, 2012, 463-464, 582-586.	0.3	0
38	Improving the dynamic behavior and working accuracy of the CNC laser cutting machines. , 2012, , .		3
39	Decision Suport System for Manufacturing Processes Reengineering based upon Fuzzy Logic Techniques. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1111-1116.	0.4	1
40	Inverse kinematics of a 7 DOF manipulator using Adaptive Neuro-Fuzzy Inference Systems. , 2012, , .		10
41	The inverse kinematics solutions of a 7 DOF robotic arm using Fuzzy Logic. , 2012, , .		11
42	Motion control of medium size CNC machine-tools-A hands-on approach. , 2012, , .		5
43	Low-cost motion control solution for industrial manufacturing systems. , 2011, , .		0
44	Improving the Manufacturing Accuracy of the Profiling Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 335-338.	0.4	0
45	Low-cost solutions for manipulation tasks in manufacturing systems: balancing costs and performances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 339-344.	0.4	3
46	Simulation approach for improving CNC milling machines accuracy for single axis motion. , 2010, , .		0
47	Method for improving the contouring accuracy for CNC profiling machines at the shop floor level. , 2009, , .		0
48	Comparison between the numerical simulations of incremental sheet forming and conventional stretch forming process. International Journal of Material Forming, 2008, 1, 1187-1190.	2.0	13
49	Motion control systems for machine tools - a mechatronic approach by means of simulation. , 2008, , .		0
50	Numerical Simulations and Experimental Researches for Determining the Forces of Incremental Sheet Forming Process. AIP Conference Proceedings, 2007, , .	0.4	2
51	Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy. , 2007, , .		10
52	Mechatronic Contouring System for Unconventional Sheet Metal Forming Processes. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
53	Determination of Technological Forces in the Incremental Forming Process. Applied Mechanics and Materials, 0, 371, 133-137.	0.2	0
54	Robot-Forming - An Incremental Forming Process Using an Industrial Robot by Means of DELMIA Software Package. Applied Mechanics and Materials, 0, 371, 416-420.	0.2	4

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55	Inverse Kinematics for a 7 DOF Robotic Arm Using the Redundancy Circle and ANFIS Models. Applied Mechanics and Materials, 0, 657, 823-828.	0.2	2
56	Building 3D Geometric and Kinematic Models of Five-Axis Machine-Tools for Manufacturing Prosthetic Devices. Applied Mechanics and Materials, 0, 809-810, 1004-1009.	0.2	5