

Sever-Gabriel Racz

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

336
citations

1040056

9
h-index

996975

15
g-index

73
all docs

73
docs citations

73
times ranked

224
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on the surface quality of the medical implants obtained by single point incremental forming. International Journal of Material Forming, 2010, 3, 935-938.	2.0	39
2	Springback of thick sheet AHSS subject to bending under tension. International Journal of Mechanical Sciences, 2012, 59, 104-114.	6.7	32
3	Selecting industrial robots for milling applications using AHP. Procedia Computer Science, 2017, 122, 346-353.	2.0	30
4	Incremental Forming of Titanium Ti6Al4V Alloy for Cranioplasty Plates – Decision-Making Process and Technological Approaches. Metals, 2018, 8, 626.	2.3	23
5	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
6	Processing strategies for single point incremental forming – a CAM approach. International Journal of Advanced Manufacturing Technology, 2019, 102, 1761-1777.	3.0	16
7	Decision-making Tool for Moving from 3-axes to 5-axes CNC Machine-tool. Procedia Computer Science, 2016, 91, 184-192.	2.0	14
8	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
9	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
10	The inverse kinematics solutions of a 7 DOF robotic arm using Fuzzy Logic. , 2012, , .		11
11	Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy. , 2007, , .		10
12	Inverse kinematics of a 7 DOF manipulator using Adaptive Neuro-Fuzzy Inference Systems. , 2012, , .		10
13	Evaluating Safety Systems for Machine Tools with Computer Numerical Control using Analytic Hierarchy Process. Safety, 2019, 5, 14.	1.7	8
14	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
15	Study of the Formability of Laminated Lightweight Metallic Materials. MATEC Web of Conferences, 2017, 121, 03008.	0.2	6
16	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
17	Motion control of medium size CNC machine-tools-A hands-on approach. , 2012, , .		5
18	Researches Regarding the Usage of Titanium Alloys in Cranial Implants. Applied Mechanics and Materials, 2014, 657, 173-177.	0.2	5

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Using Serial Industrial Robots and CAM Techniques for Manufacturing Prosthetic Devices. Applied Mechanics and Materials, 2015, 762, 313-318.	0.2	4
22	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
23	Selecting the Safest CNC Machining Workshop Using AHP and TOPSIS Approaches. Safety, 2021, 7, 27.	1.7	4
24	A Fuzzy-based Decision Support Tool for Engineering Curriculum Design. International Journal of Computers, Communications and Control, 2015, 10, 43.	1.8	4
25	Smart Cutting Tools Used in the Processing of Aluminum Alloys. Sensors, 2022, 22, 28.	3.8	4
26	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
27	Experimental Research of the Formability of Lightweight Metallic Materials Used in Automotive Industry. Applied Mechanics and Materials, 0, 760, 391-396.	0.2	3
28	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
29	Numerical Simulations and Experimental Researches for Determining the Forces of Incremental Sheet Forming Process. AIP Conference Proceedings, 2007, , .	0.4	2
30	Prediction of Springback After Draw-Bending Test Using Different Material Models. , 2011, , .		2
31	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
32	Adaptive neuro-fuzzy inference system for kinematics solutions of redundant robots. , 2016, , .		2
33	Researches regarding the reducing of burr size by optimising the cutting parameters on a CNC milling machine. MATEC Web of Conferences, 2017, 112, 01006.	0.2	2
34	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
35	Selecting between CNC turning centers using a combined AHP and fuzzy approach. Procedia Computer Science, 2019, 162, 290-297.	2.0	2
36	Incremental forming â€œ CAE/CAM approaches and results. IOP Conference Series: Materials Science and Engineering, 2019, 591, 012065.	0.6	2

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37	Hazards That Can Affect CNC Machine Tools during Operation – An AHP Approach. Safety, 2020, 6, 10.	1.7	2
38	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
39	Computer assisted techniques for the incremental forming technology. , 2013, , .		1
40	Kinematic Solutions of a 7 DOF Robotic Arm Using Redundancy Circle and Fuzzy Models. Applied Mechanics and Materials, 0, 555, 320-326.	0.2	1
41	Contributions Regarding Incremental Forming Process of Bimetallic Sheets. Applied Mechanics and Materials, 2014, 657, 178-182.	0.2	1
42	FEM Simulation of Laminated Lightweight Materials Processed through Single Point Incremental Forming. Applied Mechanics and Materials, 0, 772, 38-43.	0.2	1
43	Study of the Formability of Light Metallic Materials. Applied Mechanics and Materials, 0, 809-810, 289-294.	0.2	1
44	Zigler-Nicols PID Tuning Method for Position Control of a Mobile Robot. Applied Mechanics and Materials, 0, 841, 221-226.	0.2	1
45	Experimental and numerical investigations of the steel sheets formability with hydroforming. MATEC Web of Conferences, 2017, 94, 02016.	0.2	1
46	5-axes modular CNC machining center. MATEC Web of Conferences, 2017, 112, 06004.	0.2	1
47	Advanced Techniques used in Numerical Simulation for Deep-drawing Process. MATEC Web of Conferences, 2019, 290, 03012.	0.2	1
48	Force and thickness prediction with FEA of the cranial implants manufactured through SPIF. MATEC Web of Conferences, 2019, 290, 04008.	0.2	1
49	Using open source software CNC controllers and modular multi-axis mechanical structure as integrated teaching environment for CAD/CAM/CAE training. IOP Conference Series: Materials Science and Engineering, 2020, 968, 012024.	0.6	1
50	Incremental forming using KUKA KR210-2 industrial robot - research regarding design rules and process modelling. MATEC Web of Conferences, 2021, 343, 08005.	0.2	1
51	Study upon the kinematic simulation of the incremental forming carried-on using a serial industrial robot. IOP Conference Series: Materials Science and Engineering, 0, 1009, 012011.	0.6	1
52	Increasing the Durability of Trimming Dies Used to Clean Anodes in the Aluminum Industry. Metals, 2021, 11, 1157.	2.3	1
53	Experimental Research on the Behaviour of Metal Active Gas Tailor Welded Blanks during Single Point Incremental Forming Process. Metals, 2021, 11, 198.	2.3	1
54	ROUGHNESS CONTROL OF PARTS OBTAINED THROUGH INCREMENTAL SHEET FORMING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 891-896.	0.4	0

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55	IMPROVING CNC MACHINE TOOLS ACCURACY USING MODELING AND COMPUTER SIMULATION TECHNIQUES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 881-886.	0.4	0
56	Motion control systems for machine tools - a mechatronic approach by means of simulation. , 2008, , .		0
57	Method for improving the contouring accuracy for CNC profiling machines at the shop floor level. , 2009, , .		0
58	Modular device for determining forming limit curves " a cost effective approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 355-360.	0.4	0
59	Simulation approach for improving CNC milling machines accuracy for single axis motion. , 2010, , .		0
60	Investigation of Thick Sheet AHSS Springback in Combined Bending under Tension. Key Engineering Materials, 2012, 504-506, 791-796.	0.4	0
61	Determination of Technological Forces in the Incremental Forming Process. Applied Mechanics and Materials, 0, 371, 133-137.	0.2	0
62	Experimental Researches Regarding Strain Measurement of Incrementally Formed Sheet Metal Parts Done Using an Industrial Robot. Applied Mechanics and Materials, 2014, 555, 300-305.	0.2	0
63	Theoretical and Experimental Researches Regarding Multilayer Materials Used for Incremental Forming. Applied Mechanics and Materials, 2014, 555, 413-418.	0.2	0
64	Method for Manufacturing Custom-Shaped Prosthetic Parts from Titanium Alloys by Incremental Forming Using Industrial Robots. Applied Mechanics and Materials, 2014, 555, 575-579.	0.2	0
65	Method for Estimating the Manual Nesting Process Efficiency for Profiling Machines, Based upon Image Processing Techniques. Applied Mechanics and Materials, 0, 808, 86-91.	0.2	0
66	Considerations on Cutting Regime Influence of NC Laser Cutting Machine Tool on Processed Surface Quality. Applied Mechanics and Materials, 2015, 760, 475-481.	0.2	0
67	Model of a CNC Feed Drive for On-Site Tuning of the Controllers for Single Axis Motion. Applied Mechanics and Materials, 0, 841, 133-138.	0.2	0
68	Positioning system for assembly and manufacturing tasks. MATEC Web of Conferences, 2019, 299, 02002.	0.2	0
69	Study on the application of CAM techniques on CNC lathes with Y axis and driven tools. IOP Conference Series: Materials Science and Engineering, 0, 1009, 012010.	0.6	0
70	FEM RESEARCHES REGARDING INCREMENTAL FORMING PROCESS. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2013, XXII (XII), 2013/1, .	0.1	0
71	MAKING MECHATRONICS STUDY PROGRAMME AT "LUCIAN BLAGA" UNIVERSITY OF SIBIU AVAILABLE FOR INTERNATIONAL STUDENTS. INTED Proceedings, 2016, , .	0.0	0
72	IS ENGINEERING A MALE SPECIFIC PROFESSION AND HOW THIS ISSUE IS ADDRESSED AT LUCIAN BLAGA UNIVERSITY OF SIBIU. INTED Proceedings, 2016, , .	0.0	0

#	ARTICLE	IF	CITATIONS
73	ONLINE TEACHING ACTIVITIES DUE TO COVID-19 - CASE STUDY FOR THE MECHATRONICS STUDY PROGRAMME. , 2021, , .		0