

# Sever-Gabriel Racz

## List of Publications by Year in descending order

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73  
papers

336  
citations

1040056

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996975

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73  
all docs

73  
docs citations

73  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Cutting Tools Used in the Processing of Aluminum Alloys. Sensors, 2022, 22, 28.	3.8	4
2	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
3	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
4	Selecting the Safest CNC Machining Workshop Using AHP and TOPSIS Approaches. Safety, 2021, 7, 27.	1.7	4
5	Increasing the Durability of Trimming Dies Used to Clean Anodes in the Aluminum Industry. Metals, 2021, 11, 1157.	2.3	1
6	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
7	ONLINE TEACHING ACTIVITIES DUE TO COVID-19 - CASE STUDY FOR THE MECHATRONICS STUDY PROGRAMME. , 2021, , .		0
8	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
9	Hazards That Can Affect CNC Machine Tools during Operation – An AHP Approach. Safety, 2020, 6, 10.	1.7	2
10	Advanced Techniques used in Numerical Simulation for Deep-drawing Process. MATEC Web of Conferences, 2019, 290, 03012.	0.2	1
11	Force and thickness prediction with FEA of the cranial implants manufactured through SPIF. MATEC Web of Conferences, 2019, 290, 04008.	0.2	1
12	Evaluating Safety Systems for Machine Tools with Computer Numerical Control using Analytic Hierarchy Process. Safety, 2019, 5, 14.	1.7	8
13	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
14	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
15	Selecting between CNC turning centers using a combined AHP and fuzzy approach. Procedia Computer Science, 2019, 162, 290-297.	2.0	2
16	Positioning system for assembly and manufacturing tasks. MATEC Web of Conferences, 2019, 299, 02002.	0.2	0
17	Incremental forming – CAE/CAM approaches and results. IOP Conference Series: Materials Science and Engineering, 2019, 591, 012065.	0.6	2
18	Processing strategies for single point incremental forming – a CAM approach. International Journal of Advanced Manufacturing Technology, 2019, 102, 1761-1777.	3.0	16

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Incremental Forming of Titanium Ti6Al4V Alloy for Cranioplasty Plates – Decision-Making Process and Technological Approaches. Metals, 2018, 8, 626.	2.3	23
22	Experimental and numerical investigations of the steel sheets formability with hydroforming. MATEC Web of Conferences, 2017, 94, 02016.	0.2	1
23	Study of the Formability of Laminated Lightweight Metallic Materials. MATEC Web of Conferences, 2017, 121, 03008.	0.2	6
24	Selecting industrial robots for milling applications using AHP. Procedia Computer Science, 2017, 122, 346-353.	2.0	30
25	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
26	5-axes modular CNC machining center. MATEC Web of Conferences, 2017, 112, 06004.	0.2	1
27	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
28	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
29	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
30	Decision-making Tool for Moving from 3-axes to 5-axes CNC Machine-tool. Procedia Computer Science, 2016, 91, 184-192.	2.0	14
31	Adaptive neuro-fuzzy inference system for kinematics solutions of redundant robots. , 2016, , .		2
32	MAKING MECHATRONICS STUDY PROGRAMME AT “LUCIAN BLAGA” UNIVERSITY OF SIBIU AVAILABLE FOR INTERNATIONAL STUDENTS. INTED Proceedings, 2016, , .	0.0	0
33	IS ENGINEERING A MALE SPECIFIC PROFESSION AND HOW THIS ISSUE IS ADDRESSED AT LUCIAN BLAGA UNIVERSITY OF SIBIU. INTED Proceedings, 2016, , .	0.0	0
34	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
35	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
36	Using Serial Industrial Robots and CAM Techniques for Manufacturing Prosthetic Devices. Applied Mechanics and Materials, 2015, 762, 313-318.	0.2	4

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37	A Fuzzy-based Decision Support Tool for Engineering Curriculum Design. International Journal of Computers, Communications and Control, 2015, 10, 43.	1.8	4
38	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
39	Researches Regarding the Usage of Titanium Alloys in Cranial Implants. Applied Mechanics and Materials, 2014, 657, 173-177.	0.2	5
40	Contributions Regarding Incremental Forming Process of Bimetallic Sheets. Applied Mechanics and Materials, 2014, 657, 178-182.	0.2	1
41	Theoretical and Experimental Researches Regarding Multilayer Materials Used for Incremental Forming. Applied Mechanics and Materials, 2014, 555, 413-418.	0.2	0
42	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
43	Computer assisted techniques for the incremental forming technology. , 2013, , .		1
44	FEM RESEARCHES REGARDING INCREMENTAL FORMING PROCESS. Annals of the Oradea University: Fascicle Management and Technological Engineering, 2013, XXII (XII), 2013/1, .	0.1	0
45	Investigation of Thick Sheet AHSS Springback in Combined Bending under Tension. Key Engineering Materials, 2012, 504-506, 791-796.	0.4	0
46	Inverse kinematics of a 7 DOF manipulator using Adaptive Neuro-Fuzzy Inference Systems. , 2012, , .		10
47	The inverse kinematics solutions of a 7 DOF robotic arm using Fuzzy Logic. , 2012, , .		11
48	Motion control of medium size CNC machine-tools-A hands-on approach. , 2012, , .		5
49	Springback of thick sheet AHSS subject to bending under tension. International Journal of Mechanical Sciences, 2012, 59, 104-114.	6.7	32
50	Prediction of Springback After Draw-Bending Test Using Different Material Models. , 2011, , .		2
51	Modular device for determining forming limit curves â€” a cost effective approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 355-360.	0.4	0
52	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
53	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
54	Simulation approach for improving CNC milling machines accuracy for single axis motion. , 2010, , .		0

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55	Method for improving the contouring accuracy for CNC profiling machines at the shop floor level. , 2009, , .		0
56	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
57	Motion control systems for machine tools - a mechatronic approach by means of simulation. , 2008, , .		0
58	Numerical Simulations and Experimental Researches for Determining the Forces of Incremental Sheet Forming Process. AIP Conference Proceedings, 2007, , .	0.4	2
59	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
60	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
61	Computer Simulation for the Study of CNC Feed Drives Dynamic Behavior and Accuracy. , 2007, , .		10
62	Determination of Technological Forces in the Incremental Forming Process. Applied Mechanics and Materials, 0, 371, 133-137.	0.2	0
63	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
64	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
65	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
66	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
67	FEM Simulation of Laminated Lightweight Materials Processed through Single Point Incremental Forming. Applied Mechanics and Materials, 0, 772, 38-43.	0.2	1
68	Study of the Formability of Light Metallic Materials. Applied Mechanics and Materials, 0, 809-810, 289-294.	0.2	1
69	Experimental Research of the Formability of Lightweight Metallic Materials Used in Automotive Industry. Applied Mechanics and Materials, 0, 760, 391-396.	0.2	3
70	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
71	Zigler-Nicols PID Tuning Method for Position Control of a Mobile Robot. Applied Mechanics and Materials, 0, 841, 221-226.	0.2	1
72	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

#	ARTICLE	IF	CITATIONS
73	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