

# Dariusz Ceglarek

## List of Publications by Citations

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99  
papers

2,069  
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24  
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42  
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110  
ext. papers

2,356  
ext. citations

3.6  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
99	Modeling Variation Propagation of Multi-Station Assembly Systems With Compliant Parts. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2003</b> , 125, 673-681	3	215
98	Fault Diagnosis of Multistage Manufacturing Processes by Using State Space Approach. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 313-322	3.3	165
97	Diagnosability Analysis of Multi-Station Manufacturing Processes. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2002</b> , 124, 1-13	1.6	113
96	Impact of fixture design on sheet metal assembly variation. <i>Journal of Manufacturing Systems</i> , <b>2004</b> , 23, 182-193	9.1	80
95	Stream-of-Variation (SOVA) Modeling II: A Generic 3D Variation Model for Rigid Body Assembly in Multistation Assembly Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 832-842	3.3	79
94	Mode-based Decomposition of Part Form Error by Discrete-Cosine-Transform with Implementation to Assembly and Stamping System with Compliant Parts. <i>CIRP Annals - Manufacturing Technology</i> , <b>2002</b> , 51, 21-26	4.9	79
93	Stream-of-Variation Modeling Part I: A Generic Three-Dimensional Variation Model for Rigid-Body Assembly in Single Station Assembly Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 821-831	3.3	74
92	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2003</b> , 19, 543-556		73
91	Comparative Analysis of Tooth-Root Strength Using ISO and AGMA Standards in Spur and Helical Gears With FEM-based Verification. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2006</b> , 128, 1141-1158	3	69
90	Design Evaluation of Multi-station Assembly Processes by Using State Space Approach. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2002</b> , 124, 408-418	3	68
89	Process-oriented tolerancing for multi-station assembly systems. <i>IIE Transactions</i> , <b>2005</b> , 37, 493-508		64
88	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2007</b> , 4, 141-152	4.9	61
87	Genetic-algorithms-based algorithm portfolio for inventory routing problem with stochastic demand. <i>International Journal of Production Research</i> , <b>2013</b> , 51, 118-137	7.8	37
86	Assessment of reconfiguration schemes for Reconfigurable Manufacturing Systems based on resources and lead time. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2017</b> , 43, 30-38	9.2	36
85	Rapid deployment of remote laser welding processes in automotive assembly systems. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 389-394	4.9	36
84	Correlation analysis of the variation of weld seam and tensile strength in laser welding of galvanized steel. <i>Optics and Lasers in Engineering</i> , <b>2013</b> , 51, 1143-1152	4.6	36
83	Variation propagation modeling and analysis at preliminary design phase of multi-station assembly systems. <i>Assembly Automation</i> , <b>2009</b> , 29, 154-166	2.1	34

82	Integrating GD&T into dimensional variation models for multistage machining processes. <i>International Journal of Production Research</i> , <b>2010</b> , 48, 3129-3149	7.8	32
81	Enhancement of Mahalanobis-Maguchi System via Rough Sets based Feature Selection. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 8003-8015	7.8	29
80	Fixture Design Optimisation Considering Production Batch of Compliant Non-Ideal Sheet Metal Parts. <i>Procedia Manufacturing</i> , <b>2015</b> , 1, 157-168	1.5	26
79	Process capability surrogate model-based tolerance synthesis for multi-station manufacturing systems. <i>IIE Transactions</i> , <b>2009</b> , 41, 309-322		26
78	Tolerance Analysis for Design of Multistage Manufacturing Processes Using Number-Theoretical Net Method (NT-net). <i>Flexible Services and Manufacturing Journal</i> , <b>2004</b> , 16, 65-90		26
77	Coverage path planning with targetted viewpoint sampling for robotic free-form surface inspection. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 61, 101843	9.2	26
76	Spatio-Temporal Adaptive Sampling for effective coverage measurement planning during quality inspection of free form surfaces using robotic 3D optical scanner. <i>Journal of Manufacturing Systems</i> , <b>2019</b> , 53, 93-108	9.1	25
75	Fault Diagnosis and Fault-Tolerant Control of Uncertain Robot Manipulators Using High-Order Sliding Mode. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-14	1.1	24
74	Deep learning enhanced digital twin for Closed-Loop In-Process quality improvement. <i>CIRP Annals - Manufacturing Technology</i> , <b>2020</b> , 69, 369-372	4.9	23
73	Statistical modal analysis for variation characterization and application in manufacturing quality control. <i>IIE Transactions</i> , <b>2014</b> , 46, 497-511		23
72	Multiple Fault Diagnosis Method in Multistation Assembly Processes Using Orthogonal Diagonalization Analysis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	23
71	Key characteristics-based sensor distribution in multi-station assembly processes. <i>Journal of Intelligent Manufacturing</i> , <b>2015</b> , 26, 43-58	6.7	19
70	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 1312-1322	11.9	19
69	Robust fault tolerant control of robot manipulators with global fixed-time convergence. <i>Journal of the Franklin Institute</i> , <b>2021</b> , 358, 699-722	4	18
68	Fixture Capability Optimisation for Early-stage Design of Assembly System with Compliant Parts Using Nested Polynomial Chaos Expansion. <i>Procedia CIRP</i> , <b>2016</b> , 41, 87-92	1.8	16
67	Multivariate Analysis and Evaluation of Adaptive Sheet Metal Assembly Systems. <i>CIRP Annals - Manufacturing Technology</i> , <b>1998</b> , 47, 17-22	4.9	15
66	Fixture workspace synthesis for reconfigurable assembly using procrustes-based pairwise configuration optimization. <i>Journal of Manufacturing Systems</i> , <b>2006</b> , 25, 25-38	9.1	15
65	The modeling and analysis of a butting assembly in the presence of workpiece surface roughness and part dimensional error. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2006</b> , 31, 528-538	3.3	15

64	Closed-loop gap bridging control for remote laser welding of aluminum components based on first principle energy and mass balance. <i>Journal of Laser Applications</i> , <b>2019</b> , 31, 022416	2.1	14
63	Transfer Function of Assembly Process with Compliant Non-ideal Parts. <i>Procedia CIRP</i> , <b>2014</b> , 21, 177-182	1.8	14
62	A novel hybrid shell element formulation (QUAD+ and TRIA+): A benchmarking and comparative study. <i>Finite Elements in Analysis and Design</i> , <b>2019</b> , 166, 103319	2.2	13
61	Hierarchical synthesis of multi-level design parameters in assembly system. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 149-152	4.9	13
60	Rapid Response Diagnosis of Multi-stage Assembly Process with Compliant non-ideal Parts using Self-evolving Measurement System. <i>Procedia CIRP</i> , <b>2017</b> , 60, 38-43	1.8	13
59	Optimal Trajectory Planning For Material Handling of Compliant Sheet Metal Parts. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2002</b> , 124, 213-222	3	12
58	Physics-driven Shape Variation Modelling at Early Design Stage. <i>Procedia CIRP</i> , <b>2016</b> , 41, 1072-1077	1.8	12
57	Adaptive Measurement and Modelling Methodology for In-line 3D Surface Metrology Scanners. <i>Procedia CIRP</i> , <b>2017</b> , 60, 26-31	1.8	11
56	Improved workflow modelling using role activity diagram-based modelling with application to a radiology service case study. <i>Computer Methods and Programs in Biomedicine</i> , <b>2014</b> , 116, 274-98	6.9	11
55	Functional process adjustments to reduce No-Fault-Found product failures in service caused by in-tolerance faults. <i>CIRP Annals - Manufacturing Technology</i> , <b>2009</b> , 58, 37-40	4.9	11
54	A Novel Geometric Tolerance Modeling Inspired by Parametric Space Envelope. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2018</b> , 15, 1386-1398	4.9	10
53	Modelling variations in hospital service delivery based on real time locating information. <i>Applied Mathematical Modelling</i> , <b>2014</b> , 38, 878-893	4.5	10
52	Fault pattern identification in multi-stage assembly processes with non-ideal sheet-metal parts based on reinforcement learning architecture. <i>Procedia CIRP</i> , <b>2018</b> , 67, 601-606	1.8	10
51	Pathway variation analysis (PVA): Modelling and simulations. <i>Operations Research for Health Care</i> , <b>2015</b> , 6, 61-77	1.8	8
50	End-effector design optimisation and multi-robot motion planning for handling compliant parts. <i>Structural and Multidisciplinary Optimization</i> , <b>2018</b> , 57, 1377-1390	3.6	8
49	Variation Source Identification in Manufacturing Processes Based on Relational Measurements of Key Product Characteristics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	8
48	Quality and productivity driven trajectory optimisation for robotic handling of compliant sheet metal parts in multi-press stamping lines. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2019</b> , 56, 264-275	9.2	8
47	Root Cause Analysis of Product Service Failure Using Computer Experimentation Technique. <i>Procedia CIRP</i> , <b>2013</b> , 11, 44-49	1.8	7

46	The Quality of a Design will not Exceed the Knowledge of its Designer; an Analysis Based on Axiomatic Information and the Cynefin Framework. <i>Procedia CIRP</i> , <b>2015</b> , 34, 19-24	1.8	7
45	Visibility Analysis for Assembly Fixture Calibration Using Screen Space Transformation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2005</b> , 127, 622-634	3.3	7
44	Stream-of-Variation Modeling I: A Generic 3D Variation Model for Rigid Body Assembly in Single Station Assembly Processes <b>2006</b> , 661		7
43	The analysis of feature-based measurement error in coordinate metrology. <i>IIE Transactions</i> , <b>2004</b> , 36, 237-251		7
42	Development of decoupled multi-physics simulation for laser lap welding considering part-to-part gap. <i>Journal of Laser Applications</i> , <b>2017</b> , 29, 022423	2.1	6
41	Laser dimpling process parameters selection and optimization using surrogate-driven process capability space. <i>Optics and Laser Technology</i> , <b>2017</b> , 93, 149-164	4.2	6
40	Challenges and Opportunities in Remote Laser Welding of Steel to Aluminium. <i>MATEC Web of Conferences</i> , <b>2019</b> , 269, 02012	0.3	6
39	Keyhole mapping to enable closed-loop weld penetration depth control for remote laser welding of aluminum components using optical coherence tomography. <i>Journal of Laser Applications</i> , <b>2020</b> , 32, 032004	2.1	6
38	Modeling of Decision Making Process for Product Service Failure Diagnosis. <i>Procedia CIRP</i> , <b>2013</b> , 11, 32-378		6
37	Applying optical coherence tomography for weld depth monitoring in remote laser welding of automotive battery tab connectors. <i>Journal of Laser Applications</i> , <b>2021</b> , 33, 012028	2.1	6
36	Root Cause Analysis of Product Service Failures in Design-A Closed-loop Lifecycle Modelling Approach. <i>Procedia CIRP</i> , <b>2014</b> , 21, 165-170	1.8	5
35	Functional capability space and optimum process adjustments for manufacturing processes with in-specs failure. <i>IIE Transactions</i> , <b>2009</b> , 42, 95-106		5
34	Rolling Element Bearing Fault Diagnosis Using Integrated Nonlocal Means Denoising with Modified Morphology Filter Operators. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-14	1.1	5
33	A quality-driven assembly sequence planning and line configuration selection for non-ideal compliant structures assemblies. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 15-30	3.2	5
32	A Framework for Tolerance Modeling Based on Parametric Space Envelope. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	3.3	4
31	Structured Analysis of Reconfigurable Manufacturing Systems. <i>Lecture Notes in Mechanical Engineering</i> , <b>2013</b> , 147-157	0.4	4
30	Role activity diagram-based discrete event simulation model for healthcare service delivery processes. <i>International Journal of Systems Science: Operations and Logistics</i> , <b>2017</b> , 4, 68-83	2.6	3
29	A Framework for Physics-driven in-process Monitoring of Penetration and Interface Width in Laser Overlap Welding. <i>Procedia CIRP</i> , <b>2017</b> , 60, 44-49	1.8	3

28	<b>2013,</b>		3
27	Explicit Yield Model (EYM) for Tolerance Synthesis of Large Scale Complex Assemblies <b>2006,</b> 615		3
26	Impact of Fixture Design Sheet Metal Assembly Variation <b>2002,</b> 133		3
25	Stream-of-Variation (SOVA) Modeling II: A Generic 3D Variation Model for Rigid Body Assembly in Multi Station Assembly Processes <b>2006,</b>		3
24	3D convolutional neural networks to estimate assembly process parameters using 3D point-clouds <b>2019,</b>		3
23	The Effects of Laser Welding Direction on Joint Quality for Non-Uniform Part-to-Part Gaps. <i>Metals,</i> <b>2016,</b> 6, 184	2.3	3
22	. <i>IEEE Transactions on Industrial Informatics,</i> <b>2021,</b> 17, 6676-6686	11.9	3
21	Shape Error Modelling and Analysis by Conditional Simulations of Gaussian Random Fields for Compliant Non-Ideal Sheet Metal Parts. <i>Procedia CIRP,</i> <b>2018,</b> 75, 279-284	1.8	3
20	Guidelines for Application of the Constituent Roadmap of Product Design Based on Axiomatic Design. <i>MATEC Web of Conferences,</i> <b>2017,</b> 127, 01013	0.3	2
19	<b>2019,</b>		2
18	Axiomatic Product Design in Three Stages: A Constituent Roadmap That Visualises the Status of the Design Process by Tracking the Knowledge of the Designer <b>2015,</b>		2
17	Representation, Generation, and Analysis of Mechanical Assembly Sequences With k-ary Operations. <i>Journal of Computing and Information Science in Engineering,</i> <b>2012,</b> 12,	2.4	2
16	<b>2007,</b>		2
15	Introduction: Modeling and Analysis for Complex Production Systems. Position Statement. <i>Flexible Services and Manufacturing Journal,</i> <b>2004,</b> 16, 5-9		2
14	Multiple Fault Diagnosis Method in Multi-Station Assembly Processes Using State Space Model and Orthogonal Diagonalization Analysis <b>2005,</b> 1201		2
13	Budding Assembly Accuracy in the Presence of Workpiece Surface Roughness and Dimensional Error <b>2002,</b> 359		2
12	Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding <b>2019,</b>		2
11	CHARACTERIZATION OF PHOTODIODES FOR DETECTION OF VARIATIONS IN PART-TO-PART GAP AND WELD PENETRATION DEPTH DURING REMOTE LASER WELDING OF COPPER-TO-STEEL BATTERY TAB CONNECTORS. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME,</i> <b>2021,</b> 143, 041001	3.3	2

10	A Different Consideration on Information and Complexity in Axiomatic Design <b>2016</b> , 105-129		2
9	Effect of Micro Solidification Crack on Mechanical Performance of Remote Laser Welded AA6063-T6 Fillet Lap Joint in Automotive Battery Tray Construction. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4522	2.6	2
8	. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	2
7	Quality-driven Optimization of Assembly Line Configuration for Multi-Station Assembly Systems with Compliant Non-ideal Sheet Metal Parts. <i>Procedia CIRP</i> , <b>2018</b> , 75, 45-50	1.8	2
6	Design Evaluation of Multi-Station Assembly Processes by Using State Space Approach <b>2002</b> , 369		1
5	Early Stage Variation Simulation and Visualization of Compliant Part Based on Parametric Space Envelope. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 1505-1515	4.9	0
4	Effect of focal position offset on joint integrity of AA1050 battery busbar assembly during remote laser welding. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 2715-2726	5.5	0
3	A Generic Systems Engineering Method for Concurrent Development of Products and Manufacturing Equipment. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 139-146	0.9	
2	Fault Localization Analysis for Multiple Fault Diagnosis in Multi-Station Assembly Systems <b>2007</b> , 593		
1	Ignorance is Bliss: Sudden Appearance of Previously Unrecognized Information and its Effect. <i>Procedia CIRP</i> , <b>2016</b> , 53, 70-77	1.8	