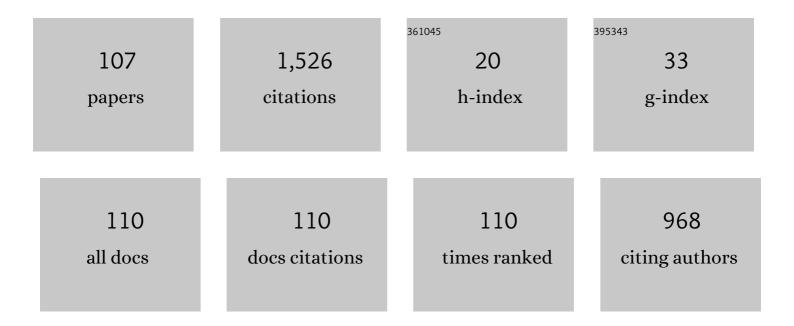
List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Topology optimization of the vibrating structure for fused deposition modelling of parts considering a hybrid deposition path pattern. International Journal of Computer Integrated Manufacturing, 2023, 36, 1379-1396.	2.9	3
2	The integrated process planning and scheduling of flexible job-shop-type remanufacturing systems using improved artificial bee colony algorithm. Journal of Intelligent Manufacturing, 2023, 34, 2963-2988.	4.4	9
3	Integrating lean production strategies, virtual reality technique and building information modeling method for mass customization in cabinet manufacturing. Engineering, Construction and Architectural Management, 2022, 29, 3970-3996.	1.8	5
4	Design, validation, and application of a hybrid shape memory alloy-magnetorheological fluid-based core bracing system under tension and compression. Structures, 2022, 35, 1151-1161.	1.7	16
5	Feature-based modeling for industrial processes in the context of digital twins: A case study of HVOF process. Advanced Engineering Informatics, 2022, 51, 101486.	4.0	7
6	Vision-based automated waste audits: a use case from the window manufacturing industry. International Journal of Advanced Manufacturing Technology, 2022, 119, 7735-7749.	1.5	5
7	A cyber-physical system approach to zero-defect manufacturing in light-gauge steel frame assemblies. Procedia Computer Science, 2022, 200, 924-933.	1.2	8
8	How to adapt lean practices in SMEs to support Industry 4.0 in manufacturing. Procedia Computer Science, 2022, 200, 934-943.	1.2	18
9	Teaching machines to optimizing machining parameters: using independent fuzzy logic controller and image data. SN Applied Sciences, 2022, 4, 107.	1.5	0
10	Increasing the operating depth of a Teflon underwater vehicle using a magnetic field. Ocean Engineering, 2022, 250, 111078.	1.9	1
11	The digitization of agricultural industry – a systematic literature review on agriculture 4.0. Smart Agricultural Technology, 2022, 2, 100042.	3.1	107
12	An ontology model to represent aquaponics 4.0 system's knowledge. Information Processing in Agriculture, 2022, 9, 514-532.	2.9	10
13	Automated Stacker Cranes: A Two-Step Storage Reallocation Process for Enhanced Service Efficiency. Processes, 2022, 10, 2.	1.3	4
14	Increasing Throughput in Warehouses: The Effect of Storage Reallocation and the Location of Input/Output Station. Sustainability, 2022, 14, 4611.	1.6	3
15	Scientometric analysis and critical review of fused deposition modeling in the plastic recycling context. , 2022, 2, 100008.		5
16	An Intelligent Manufacturing Approach Based on a Novel Deep Learning Method for Automatic Machine and Working Status Recognition. Applied Sciences (Switzerland), 2022, 12, 5697.	1.3	3
17	Numerical Simulation and Optimization of Microwave Heating Effect on Coal Seam Permeability Enhancement. Technologies, 2022, 10, 70.	3.0	3
18	An efficient tool-path planning approach for repair of cylindrical components via laser cladding. Journal of Remanufacturing, 2021, 11, 137-146.	1.6	7

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19	A decision support system to define, evaluate, and guide the lean assessment and implementation at the shop floor level. International Journal of Manufacturing Research, 2021, 16, 1.	0.1	0
20	An Automated Intelligent Feature-based Maintenance Plan Generation Method. Computer-Aided Design and Applications, 2021, 18, 1373-1389.	0.4	1
21	A Novel Deep Learning-based Automatic Damage Detection and Localization Method for Remanufacturing/Repair. Computer-Aided Design and Applications, 2021, 18, 1359-1372.	0.4	8
22	Application of Exact and Multi-Heuristic Approaches to a Sustainable Closed Loop Supply Chain Network Design. Sustainability, 2021, 13, 2433.	1.6	7
23	A vision-based approach for automatic progress tracking of floor paneling in offsite construction facilities. Automation in Construction, 2021, 125, 103620.	4.8	37
24	A parametric simulation model for HVOF coating thickness control. International Journal of Advanced Manufacturing Technology, 2021, 116, 293-314.	1.5	5
25	Scientometric Analysis and Systematic Review of Multi-Material Additive Manufacturing of Polymers. Polymers, 2021, 13, 1957.	2.0	29
26	In-field instrumented ergonomic risk assessment: Inertial measurement units versus Kinect V2. International Journal of Industrial Ergonomics, 2021, 84, 103147.	1.5	33
27	Quantifying the Impact of Inspection Processes on Production Lines through Stochastic Discrete-Event Simulation Modeling. Modelling, 2021, 2, 406-424.	0.8	4
28	An open-source powered and ergonomic personal protective respirator for frontline COVID-19 response. HardwareX, 2021, 10, e00223.	1.1	2
29	A novel SMA-magnetorheological hybrid bracing system for seismic control. Engineering Structures, 2021, 244, 112709.	2.6	9
30	Dynamic response of frame structures with shape memory alloy -magnetorheological fluid-based bracing system by nonlinear time-history analysis. Journal of Building Engineering, 2021, 43, 102914.	1.6	4
31	Curved layered fused filament fabrication: An overview. Additive Manufacturing, 2021, 47, 102354.	1.7	8
32	An ontology model to support the automated design of aquaponic grow beds. Procedia CIRP, 2021, 100, 55-60.	1.0	13
33	Instrumented Ergonomic Risk Assessment Using Wearable Inertial Measurement Units: Impact of Joint Angle Convention. IEEE Access, 2021, 9, 7293-7305.	2.6	18
34	Design and simulation of an automated robotic machining cell for cross-laminated timber panels. Procedia CIRP, 2021, 100, 175-180.	1.0	6
35	Lab Scale Implementation of Industry 4.0 for an Automatic Yogurt Filling Production System—Experimentation, Modeling and Process Optimization. Applied Sciences (Switzerland), 2021, 11, 9821.	1.3	6
36	Vision-Based Damage Localization Method for an Autonomous Robotic Laser Cladding Process. Procedia CIRP, 2021, 104, 827-832.	1.0	2

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37	Vision-Based Associative Robotic Recognition of Working Status in Autonomous Manufacturing Environment. Procedia CIRP, 2021, 104, 1535-1540.	1.0	5
38	A decision support system to define, evaluate and guide the lean assessment and implementation at the shop-floor level. International Journal of Manufacturing Research, 2021, 16, 325.	0.1	1
39	Implementation of Lean Tools to Improve Mass Production of a Laser Cladding Process. , 2021, , .		1
40	Efficient Commercial Classification of Agricultural Products using Convolutional Neural Networks. IAES International Journal of Robotics and Automation, 2021, 10, 353.	0.2	0
41	A Topology Optimization Method for Hybrid Subtractive–Additive Remanufacturing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 939-953.	2.7	36
42	BIM-based decision support system for automated manufacturability check of wood frame assemblies. Automation in Construction, 2020, 111, 103065.	4.8	31
43	Real-time growth rate and fresh weight estimation for little gem romaine lettuce in aquaponic grow beds. Computers and Electronics in Agriculture, 2020, 179, 105827.	3.7	30
44	Online vision-based inspection system for thermoplastic hot plate welding in window frame manufacturing. Procedia CIRP, 2020, 93, 1316-1321.	1.0	6
45	A science mapping study on learning factories research. Procedia Manufacturing, 2020, 45, 84-89.	1.9	4
46	Numerical Modeling and Analysis of Ti6Al4V Alloy Chip for Biomedical Applications. Materials, 2020, 13, 5236.	1.3	8
47	Automated Feature Extraction for Hybrid Additive-Subtractive Remanufacturing. Procedia CIRP, 2020, 93, 56-61.	1.0	3
48	A Qualitative Tool Condition Monitoring Framework Using Convolution Neural Network and Transfer Learning. Applied Sciences (Switzerland), 2020, 10, 7298.	1.3	20
49	Simulation-Driven Design of Wood Framing Support Systems for Off-Site Construction Machinery. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020075.	2.0	10
50	Cutting performances of TiCN–HfC and TiCN–HfC–WC ceramic tools in dry turning hardened AISI H13. Advances in Applied Ceramics, 2020, 119, 380-386.	0.6	9
51	Automated verification of 3D manufacturability for steel frame assemblies. Automation in Construction, 2020, 118, 103287.	4.8	14
52	Tensile Mechanical Behaviour of Multi-Polymer Sandwich Structures via Fused Deposition Modelling. Polymers, 2020, 12, 651.	2.0	56
53	Two-Axis Accelerometer Calibration and Nonlinear Correction Using Neural Networks: Design, Optimization, and Experimental Evaluation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6787-6794.	2.4	17
54	Topology Optimization for Multipatch Fused Deposition Modeling 3D Printing. Applied Sciences (Switzerland), 2020, 10, 943.	1.3	15

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55	Tribological behaviour of TiB2-HfC ceramic tool material under dry sliding condition. Ceramics International, 2020, 46, 20320-20327.	2.3	11
56	Intelligent vision-based online inspection system of screw-fastening operations in light-gauge steel frame manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 109, 645-657.	1.5	27
57	The impact on the mechanical properties of multi-material polymers fabricated with a single mixing nozzle and multi-nozzle systems via fused deposition modeling. International Journal of Advanced Manufacturing Technology, 2020, 106, 4509-4520.	1.5	57
58	A cost-driven process planning method for hybrid additive–subtractive remanufacturing. Journal of Manufacturing Systems, 2020, 55, 248-263.	7.6	40
59	Towards automated aquaponics: A review on monitoring, IoT, and smart systems. Journal of Cleaner Production, 2020, 263, 121571.	4.6	95
60	Design of a New Game for Teaching Assembly Process. Mechanisms and Machine Science, 2020, , 44-52.	0.3	2
61	A decision-making tool to integrate lean 4.0 in windows manufacturing using simulation and optimization models. , 2020, , .		2
62	An Improved Robot Path Planning Algorithm for a Novel Self-adapting Intelligent Machine Tending Robotic System. Mechanisms and Machine Science, 2020, , 53-64.	0.3	4
63	Feature extraction and process planning of integrated hybrid additive-subtractive system for remanufacturing. Mathematical Biosciences and Engineering, 2020, 17, 7274-7301.	1.0	8
64	Minimizing joist cutting waste through dynamic waste allocation in panelized floor manufacturing. International Journal of Construction Management, 2019, , 1-13.	2.2	3
65	A scientometric analysis and critical review of computer vision applications for construction. Automation in Construction, 2019, 107, 102947.	4.8	126
66	Material Selection Methodology for Additive Manufacturing Applications. Procedia CIRP, 2019, 84, 486-490.	1.0	12
67	Real-time visual detection and correction of automatic screw operations in dimpled light-gauge steel framing with pre-drilled pilot holes. Procedia Manufacturing, 2019, 34, 798-803.	1.9	14
68	Level set-based heterogeneous object modeling and optimization. CAD Computer Aided Design, 2019, 110, 50-68.	1.4	9
69	Intelligent assisted maintenance plan generation for corrective maintenance. Manufacturing Letters, 2019, 21, 7-11.	1.1	10
70	A primitive-based 3D reconstruction method for remanufacturing. International Journal of Advanced Manufacturing Technology, 2019, 103, 3667-3681.	1.5	19
71	Minimum length scale constraints in multi-scale topology optimisation for additive manufacturing. Virtual and Physical Prototyping, 2019, 14, 229-241.	5.3	27
72	A Hybrid Method Based on Systems Approach to Enhance Experiential Learning in Mechatronic Education. , 2019, , .		4

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73	Multi-view feature modeling for design-for-additive manufacturing. Advanced Engineering Informatics, 2019, 39, 144-156.	4.0	14
74	Generation of safe tool-paths for automatic manufacturing of light gauge steel panels in residential construction. Automation in Construction, 2019, 98, 46-60.	4.8	20
75	A vision-based system for pre-inspection of steel frame manufacturing. Automation in Construction, 2019, 97, 151-163.	4.8	75
76	Meta-Material Topology Optimization with Geometric Control. Computer-Aided Design and Applications, 2019, 16, 951-961.	0.4	3
77	Ontology-Based Knowledge Modeling for Frame Assemblies Manufacturing. , 2019, , .		10
78	A Decision Tool to Simulate the Concurrent Interdependencies Between Multi-DFX Techniques in Machine Design Conflict Resolution. , 2019, , .		0
79	Text Recognition and Machine Learning: For Impaired Robots and Humans. Alberta Academic Review, 2019, 2, 31-32.	0.0	0
80	Flying Spiders: A Reconfigurable Spider Drone For Education. Alberta Academic Review, 2019, 2, 3-4.	0.0	0
81	Light-weight shape and topology optimization with hybrid deposition path planning for FDM parts. International Journal of Advanced Manufacturing Technology, 2018, 97, 1123-1135.	1.5	29
82	Algorithm for remanufacturing of damaged parts with hybrid 3D printing and machining process. Manufacturing Letters, 2018, 15, 38-41.	1.1	24
83	Feature-Based Methodology for Design of Geometric Benchmark Test Artifacts for Additive Manufacturing Processes. Procedia CIRP, 2018, 70, 84-89.	1.0	25
84	Lean OR ERP – A Decision Support System to Satisfy Business Objectives. Procedia CIRP, 2018, 70, 422-427.	1.0	9
85	Alberta Learning Factory for training reconfigurable assembly process value stream mapping. Procedia Manufacturing, 2018, 23, 237-242.	1.9	13
86	Automated Maintenance Plan Generation Based On CAD Model Feature Recognition. Procedia CIRP, 2018, 70, 35-40.	1.0	6
87	An NC Code Based Machining Movement Simulation Method for a Parallel Robotic Machine. Lecture Notes in Computer Science, 2017, , 3-13.	1.0	2
88	A knowledge-based intelligent decision system for production planning. International Journal of Advanced Manufacturing Technology, 2017, 89, 1717-1729.	1.5	29
89	Path planning self-learning Algorithm for a dynamic changing environment. MATEC Web of Conferences, 2016, 42, 03002.	0.1	0
90	Safe and Automated Assembly Process using Vision Assisted Robot Manipulator. Procedia CIRP, 2016, 41, 771-776.	1.0	32

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91	Generation of safe and intelligent tool-paths for multi-axis machine-tools in a dynamic 2D virtual environment. International Journal of Computer Integrated Manufacturing, 2016, 29, 982-995.	2.9	15
92	Generation of safe tool-path for 2.5D milling/drilling machine-tool using 3D ToF sensor. CIRP Journal of Manufacturing Science and Technology, 2015, 10, 84-91.	2.3	13
93	Ant-Air Self-learning Algorithm for Path Planning in a Cluttered Environment. International Journal of Materials Mechanics and Manufacturing, 2015, 4, 127-130.	0.2	2
94	Human-Robot Collaboration: Twofold Strategy Algorithm to Avoid Collisions Using ToF Sensor. International Journal of Materials Mechanics and Manufacturing, 2015, 4, 144-147.	0.2	6
95	Safe and Automated Tool-Path Generation for Multi-Axis Production Machines. , 2014, , .		1
96	Game Methodology for Design Methods and Tools Selection. Journal of Learning Design, 2014, 7, .	0.8	1
97	3D safe and intelligent trajectory generation for multi-axis machine tools using machine vision. International Journal of Computer Integrated Manufacturing, 2013, 26, 365-385.	2.9	17
98	New computer vision based Snakes and Ladders algorithm for the safe trajectory of two axis CNC machines. CAD Computer Aided Design, 2012, 44, 355-366.	1.4	19
99	AllFactory: An Aquaponics 4.0 Transdisciplinary Educational and Applied Research Learning Factory at the University of Alberta. SSRN Electronic Journal, 0, , .	0.4	1
100	Real-time Implementation of Digital Twin for Robot Based Production Line. SSRN Electronic Journal, 0, , .	0.4	7
101	Investigating the effects of reduced technological constraints on cycle time through simulation modelling for automated steel wall framing. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , .	0.0	1
102	Automatic Selection Tool of Quality Control Specifications for Off-site Construction Manufacturing Products: A BIM-based Ontology Model Approach. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , 141-148.	0.0	9
103	Meta-Material Topology Optimization with Geometric Control. , 0, , .		0
104	A Collaborative Scheme for DFX Techniques in Concurrent Engineering Mitigated with Total Design Activity Model. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , 1-8.	0.0	1
105	A Survey on Information Flow Tools in Alberta's Construction Industry. Modular and Offsite Construction (MOC) Summit Proceedings, 0, , 496-503.	0.0	0
106	Deep Learning-based Automatic Damage Recognition and Spatial Localization for Remanufacturing/Repair. , 0, , .		0
107	Use of Frozen Silt Mat, an Alternative to Crane Timber Mat to Minimize Energy as Ninth Waste and to Reduce CO <sub>2</sub> Emissions. , 0, , .		0