Gianni Campatelli

List of Publications by Year
in descending order

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69	1,848	257357	289141
papers	citations	24 h-index	40 g-index

73	73	73	1302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of stepover and torch tilting angle on a repair process using WAAM. Advances in Manufacturing, 2022, 10, 541-555.	3.2	8
2	A frequency-based analysis of cutting force for depths of cut identification in peripheral end-milling. Mechanical Systems and Signal Processing, 2022, 171, 108943.	4.4	12
3	Surface location error prediction in 2.5-axis peripheral milling considering tool dynamic stiffness variation. Precision Engineering, 2022, 76, 95-109.	1.8	12
4	Effects of different WAAM current deposition modes on the mechanical properties of AISI H13 tool steel. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 2259-2269.	1.3	9
5	Surface error shape identification for 3-axis milling operations. Procedia CIRP, 2021, 101, 126-129.	1.0	2
6	Extended classification of surface errors shapes in peripheral end-milling operations. Journal of Manufacturing Processes, 2021, 71, 604-624.	2.8	6
7	Life-cycle energy and carbon saving potential of Wire Arc Additive Manufacturing for the repair of mold inserts. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 943-958.	2.3	24
8	Design and Testing of a WAAM Retrofit Kit for Repairing Operations on a Milling Machine. Machines, 2021, 9, 322.	1.2	3
9	Integrated WAAM-Subtractive Versus Pure Subtractive Manufacturing Approaches: An Energy Efficiency Comparison. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 1-11.	2.7	44
10	Process Parameters Optimization of Thin-Wall Machining for Wire Arc Additive Manufactured Parts. Applied Sciences (Switzerland), 2020, 10, 7575.	1.3	14
11	Microstructural, mechanical and energy demand characterization of alternative WAAM techniques for Al-alloy parts production. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 492-499.	2.3	18
12	An experimental-numerical study of active cooling in wire arc additive manufacturing. Journal of Manufacturing Processes, 2020, 52, 58-65.	2.8	73
13	A Dedicated Design Strategy for Active Boring Bar. Applied Sciences (Switzerland), 2019, 9, 3541.	1.3	7
14	A modelling framework for comparing the environmental and economic performance of WAAM-based integrated manufacturing and machining. CIRP Annals - Manufacturing Technology, 2019, 68, 37-40.	1.7	30
15	Fixture Optimization in Turning Thin-Wall Components. Machines, 2019, 7, 68.	1.2	11
16	Numerical investigation of chatter suppression in milling using active fixtures in open-loop control. JVC/Journal of Vibration and Control, 2018, 24, 1757-1773.	1.5	8
17	Case Study 1.3: Auto-adaptive Vibrations and Instabilities Suppression in General Milling Operations. Lecture Notes in Production Engineering, 2018, , 39-55.	0.3	0
18	Specific Cutting Forces of Isotropic and Orthotropic Engineered Wood Products by Round Shape Machining. Materials, 2018, 11, 2575.	1.3	4

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19	Idle time selection for wire-arc additive manufacturing: A finite element-based technique. Additive Manufacturing, 2018, 21, 479-486.	1.7	88
20	On the generation of chatter marks in peripheral milling: A spectral interpretation. International Journal of Machine Tools and Manufacture, 2018, 133, 31-46.	6.2	30
21	Heat accumulation prevention in Wire-Arc-Additive-Manufacturing using air jet impingement. Manufacturing Letters, 2018, 17, 14-18.	1.1	56
22	Feature based three axes computer aided manufacturing software for wire arc additive manufacturing dedicated to thin walled components. Additive Manufacturing, 2018, 22, 643-657.	1.7	30
23	Two-points-based receptance coupling method for tool-tip dynamics prediction. Machining Science and Technology, 2017, 21, 136-156.	1.4	12
24	Investigation and Correction of Actual Microphone Response for Chatter Detection in Milling Operations. Measurement and Control, 2017, 50, 45-52.	0.9	12
25	Mitigation of chatter instabilities in milling using an active fixture with a novel control strategy. International Journal of Advanced Manufacturing Technology, 2017, 89, 2771-2787.	1.5	23
26	Chatter stability prediction for high-speed milling through a novel experimental-analytical approach. International Journal of Advanced Manufacturing Technology, 2017, 89, 2587-2601.	1.5	13
27	Finite Element mesh coarsening for effective distortion prediction in Wire Arc Additive Manufacturing. Additive Manufacturing, 2017, 18, 145-155.	1.7	38
28	Selection of Optimal Process Parameters for Wire Arc Additive Manufacturing. Procedia CIRP, 2017, 62, 470-474.	1.0	108
29	Improved experimental-analytical approach to compute speed-varying tool-tip FRF. Precision Engineering, 2017, 48, 114-122.	1.8	37
30	Participative Knowledge Management to Empower Manufacturing Workers. International Journal of Knowledge Management, 2016, 12, 37-50.	0.7	21
31	A novel experimental-numerical approach to modeling machine tool dynamics for chatter stability prediction. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0019-JAMDSM0019.	0.3	8
32	Finite Element Modelling of Wire-arc-additive-manufacturing Process. Procedia CIRP, 2016, 55, 109-114.	1.0	96
33	Environmental Impact Reduction for a Turning Process: Comparative Analysis of Lubrication and Cutting Inserts Substitution Strategies. Procedia CIRP, 2016, 55, 200-205.	1.0	4
34	Electric and diesel microbuses driving cycles in Firenze city center. , 2016, , .		6
35	Intelligent Fixtures for Active Chatter Control in Milling. Procedia CIRP, 2016, 55, 176-181.	1.0	14
36	Speed-varying Machine Tool Dynamics Identification Through Chatter Detection and Receptance Coupling. Procedia CIRP, 2016, 55, 77-82.	1.0	10

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37	Investigating Actuation Strategies in Active Fixtures for Chatter Suppression. Procedia CIRP, 2016, 46, 311-314.	1.0	14
38	Cutting Forces Analysis in Additive Manufactured AISI H13 Alloy. Procedia CIRP, 2016, 46, 476-479.	1.0	56
39	Optimization of WAAM Deposition Patterns for T-crossing Features. Procedia CIRP, 2016, 55, 95-100.	1.0	81
40	Development of an artificial vision system for the automatic evaluation of the cutting angles of worn tools. Advances in Mechanical Engineering, 2016, 8, 168781401663659.	0.8	1
41	Improved RCSA technique for efficient tool-tip dynamics prediction. Precision Engineering, 2016, 44, 152-162.	1.8	28
42	Design of An Active Workpiece Holder. Procedia CIRP, 2015, 34, 217-222.	1.0	7
43	Investigation on Optimal Mobility System using Axiomatic Design and Scoring Matrix: the â€œDrive Abilityâ€•Experiment. Procedia CIRP, 2015, 34, 180-185.	1.0	0
44	3D Finite Element Modeling of Holder-Tool Assembly for Stability Prediction in Milling. Procedia CIRP, 2015, 31, 527-532.	1.0	20
45	Optimal workpiece orientation to reduce the energy consumption of a milling process. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 5-13.	2.7	39
46	Speed-varying cutting force coefficient identification in milling. Precision Engineering, 2015, 42, 321-334.	1.8	94
47	Effects of cutting conditions on forces and force coefficients in plunge milling operations. Advances in Mechanical Engineering, 2015, 7, 168781401558954.	0.8	11
48	Analytical â€“ FE simulation of a multi-jet electrospinning process to predict material flow. Simulation Modelling Practice and Theory, 2015, 52, 135-148.	2.2	3
49	Improved dynamic compensation for accurate cutting force measurements in milling applications. Mechanical Systems and Signal Processing, 2015, 54-55, 314-324.	4.4	56
50	Spindle speed ramp-up test: A novel experimental approach for chatter stability detection. International Journal of Machine Tools and Manufacture, 2015, 89, 221-230.	6.2	48
51	Axis geometrical errors analysis through a performance test to evaluate kinematic error in a five axis tilting-rotary table machine tool. Precision Engineering, 2015, 39, 224-233.	1.8	32
52	0605 Time domain simulation model for active fixturing in milling. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2015, 2015.8, _0605-1_-_0605-6_.	0.0	2
53	Implementing electric mobility new business model in future scenario: the electric park and ride system. , 2014, , .		0
54	Introducing wireless charging facilities for electric vehicles: the case study of Firenze. , 2014, , .		3

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55	New business models for electric mobility. , 2014, , .		2
56	Optimization of process parameters using a Response Surface Method for minimizing power consumption in the milling of carbon steel. Journal of Cleaner Production, 2014, 66, 309-316.	4.6	174
57	Chatter Stability Prediction in Milling Using Speed-varying Cutting Force Coefficients. Procedia CIRP, 2014, 14, 170-175.	1.0	41
58	Influence of Motion Error of Translational and Rotary Axes onto Machined Surface Generated by Simultaneous Five-axis Motion. Procedia CIRP, 2014, 14, 269-274.	1.0	7
59	Workpiece Orientation and Tooling Selection to Reduce the Environmental Impact of Milling Operations. Procedia CIRP, 2014, 14, 575-580.	1.0	7
60	FEM based Cutting Velocity Selection for Thin Walled Part Machining. Procedia CIRP, 2014, 14, 287-292.	1.0	45
61	Finished Surface Simulation Method to Predicting the Effects of Machine Tool Motion Errors. International Journal of Automation Technology, 2014, 8, 801-810.	0.5	13
62	Milled Surface Generation Model for Chip Thickness Detection in Peripheral Milling. Procedia CIRP, 2013, 8, 450-455.	1.0	16
63	Prediction of Milling Cutting Force Coefficients for Aluminum 6082-T4. Procedia CIRP, 2012, 1, 563-568.	1.0	62
64	A heuristic approach to meet geometric tolerance in High Pressure Die Casting. Simulation Modelling Practice and Theory, 2012, 22, 109-122.	2.2	14
65	Development of a simplified approach based on the EFQM model and Six Sigma for the implementation of TQM principles in a university administration. Total Quality Management and Business Excellence, 2011, 22, 691-704.	2.4	43
66	Quality Inspection of Microtopographic Surface Features with Profilometers and Microscopes. , 2011, , 71-110.		1
67	Geometric Tolerance Evaluation Using Combined Vision â€“ Contact Techniques and Other Data Fusion Approaches. , 2011, , 189-213.		1
68	Reliability Improvement of a Diesel Engine Using the FMETA Approach. Quality and Reliability Engineering International, 2004, 20, 143-154.	1.4	22
69	Air-Cooling Influence on Wire Arc Additive Manufactured Surfaces. Key Engineering Materials, 0, 813, 241-247.	0.4	8