

Keiichi Shirase

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

157
citations

7
h-index

10
g-index

52
ext. papers

182
ext. citations

1.5
avg, IF

3.14
L-index

#	Paper	IF	Citations
50	Analysis of the Coupled Vibration Between Feed Drive Systems and Machine Tool Structure. <i>International Journal of Automation Technology</i> , 2015 , 9, 689-697	0.8	16
49	Automatic Production Planning System to Achieve Flexible Direct Machining. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2004 , 47, 136-143		15
48	Influence of Motion Errors of Feed Drive Systems on Machined Surface. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012 , 6, 781-791	0.6	12
47	Finished Surface Simulation Method to Predicting the Effects of Machine Tool Motion Errors. <i>International Journal of Automation Technology</i> , 2014 , 8, 801-810	0.8	12
46	Trial-Less Machining Using Virtual Machining Simulator for Ball End Mill Operation. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2006 , 49, 50-55		9
45	Sensitivity analysis of relationship between error motions and machined shape errors in five-axis machining center - Peripheral milling using square-end mill as test case -. <i>Precision Engineering</i> , 2019 , 60, 28-41	2.9	8
44	Automatic process planning system for end-milling operation considering CAM operator's intention. <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 17-00563-17-00563	0.2	7
43	Machining operation planning system which utilize past machining operation data to generate new NC program. <i>Transactions of the JSME (in Japanese)</i> , 2015 , 81, 15-00280-15-00280	0.2	7
42	Automated process planning system for end-milling operation considering constraints of operation (1st report Process planning to minimize the number of times of tool change). <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 18-00242-18-00242	0.2	7
41	Influence of motion error of feed drive systems onto machined surface generated by ball end mill. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014 , 8, JAMDSM0044-JAMDSM0044	0.6	6
40	Influences of geometric and dynamic synchronous errors onto machined surface in 5-axis machining center. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016 , 10, JAMDSM0071-JAMDSM0071	0.6	6
39	Experimental evaluation of mechanical and electrical power consumption of feed drive systems driven by a ball-screw. <i>Precision Engineering</i> , 2020 , 64, 280-287	2.9	5
38	Proposal of a concept of future oriented machine tools for advanced manufacturing systems. <i>International Journal of Production Research</i> , 2004 , 42, 3657-3673	7.8	5
37	Analytical time constant design for jerk-limited acceleration profiles to minimize residual vibration after positioning operation in NC machine tools. <i>Precision Engineering</i> , 2021 , 71, 47-56	2.9	4
36	Influence of NC Program Quality and Geometric Errors of Rotary Axes on S-Shaped Machining Test Accuracy. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 21	2.2	3
35	Instantaneous rigid force model based on oblique cutting to predict milling force. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00247-17-00247	0.2	3
34	Machining Strategy to Adapt Cutting Conditions under Digital Copy Milling Concept. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2010 , 4, 924-935	0.6	3

33	Direct Machining Operation Performed by Autonomous NC Machine Tool Controlled by Digital Copy Milling Concept. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2008 , 74, 1901-1906		3
32	Active vibration suppression of NC machine tools for high-speed contouring motions. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2020 , 14, JAMDSM0005-JAMDSM0005	0.6	3
31	B8 A Knowledge-based Product Model Data for Integrating CAM-CNC Operation(Advanced machine tool). <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2009 , 2009.5, 95-100		3
30	Machinable Space Derivation of 5-Axis and Multi-Tasking Machine Tools for Workpiece Setting Decision. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 4543-4552		2
29	Development of an innovative autonomous machine tool for dynamic product planning. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 283-291	7.1	2
28	Evaluation of dynamic behavior of rotary axis in five-axis machining center (Behavior around motion direction changes). <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016 , 10, JAMDSM0075 ² -JAMDSM0075 ²	0.6	2
27	Study on the influence of geometric errors in rotary axes on cubic-machining test considering the workpiece coordinate system. <i>Precision Engineering</i> , 2021 , 71, 36-46	2.9	2
26	Cutting trouble detection system based on quantitative comparison between predicted and measured cutting torques (1st report Cutting trouble detection for tool wear). <i>Transactions of the JSME (in Japanese)</i> , 2018 , 84, 17-00433-17-00433	0.2	1
25	A001 Influence of Motion Error of Feed Drive Systems onto Machined Surface Generated by Ball End-mill. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2013 , 2013.7, 1-6		1
24	Finished Surface Analysis of Cone Frustum Generated by Simultaneous 5-Axis Controlled Motion. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 4613-4623		1
23	Tool Motion Control Referring Voxel Information of Removal Volume Voxel Model to Achieve Autonomous Milling Operation. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2013 , 79, 4572-4581		1
22	Rapid Removal Volume Acquisition for Tool Posture Decision in 3+2-Axis Control Milling. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2008 , 2, 464-473	0.6	1
21	A028 Motion Path Evaluation based on Energy Consumption of Feed Drive System in NC Machine Tool. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2013 , 2013.7, 129-134		1
20	Influence of contact between tool and workpiece onto vibration characteristics of machine tools (Evaluation method and influence of contact length of cutting edge). <i>Transactions of the JSME (in Japanese)</i> , 2020 , 86, 20-00185-20-00185	0.2	1
19	Influence of Torsional Damping and Lead of Ball-screw onto Vibration Characteristics of Feed Drive System. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 043		1
18	A revised instantaneous rigid force model for end-milling operation to eliminate predetermination of cutting coefficients. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 060		1
17	Extension of a dynamical model of muscle activation, fatigue and recovery for estimation of muscle fatigue and recovery (1st report - validation with grasping state). <i>Transactions of the JSME (in Japanese)</i> , 2016 , 82, 16-00006-16-00006	0.2	1
16	Evaluating the influence of mechanical system vibration characteristics on servo motor efficiency. <i>Precision Engineering</i> , 2021 , 72, 680-689	2.9	1

15	Evaluation of torque-dependent coupling characteristics and their influence on the system vibration characteristics. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2021 , 15, JAMDSM0060-JAMDSM0060	0.6	1
14	Positioning command design method for shorter distance positioning operations based on analyzed residual vibration amplitude. <i>Precision Engineering</i> , 2021 , 74, 36-36	2.9	0
13	Time domain coupled simulation of machine tool dynamic behaviour and cutting force based on voxel simulator of machining operation. <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00254-17-00254	0.2	0
12	Power Consumption Simulation of Servo Motors Focusing on the Influence of Mechanical Vibration on Motor Efficiency. <i>International Journal of Automation Technology</i> , 2022 , 16, 104-116	0.8	
11	The Norms of Manufacturing and Machine Tools 2018. <i>Transactions of the JSME (in Japanese)</i> , 2019 , 85, 19-pre04-19-pre04	0.2	
10	Applicability assessment and adaptation method of cutting conditions based on acceptable area to select cutting conditions for end-milling operation. <i>Transactions of the JSME (in Japanese)</i> , 2020 , 86, 20-00153-20-00153	0.2	0
9	0104 Study on the Machine Bed Support for Improving the Motion Accuracy. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2015 , 2015.8, _0104-1_-_0104-6_		
8	0105 Influences of Geometric and Dynamic Synchronous Errors onto Machined Surface in 5-axis Machining Center. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2015 , 2015.8, _0105-1_-_0105-6_		
7	Coupled Simulation between Machine Tool Behavior and Cutting Force using Voxel Simulator. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 044		
6	Vibration Suppression Method by Compensation Torque for High Speed Tracking Motions. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 042		
5	Motion Accuracy Enhancement of 5-axis Machine Tools by Modified CL-data. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2017 , 2017.9, 045		
4	3320 Feature-based Off-line Teaching System for Industrial Welding Robots to Assist Teaching Program Generation. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011 , 2011.6, _3320-1_-_3320-6_		
3	3338 Active Tool Motion Control utilizing Voxel Property to Removal Volume in Digital Copy Milling. <i>Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21</i> , 2011 , 2011.6, _3338-1_-_3338-6_		
2	S1310206 On-Machine Measurement and Corrective Machining Using Laser Displacement Sensor. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _S1310206--_S1310206-		0
1	Influence of Tool Length and Profile Errors on the Inaccuracy of Cubic-Machining Test Results. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 51	2.2	