

# Keiichi Shirase

## List of Publications by Year in Descending Order

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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	Power Consumption Simulation of Servo Motors Focusing on the Influence of Mechanical Vibration on Motor Efficiency. <i>International Journal of Automation Technology</i> , <b>2022</b> , 16, 104-116	0.8	
49	Positioning command design method for shorter distance positioning operations based on analyzed residual vibration amplitude. <i>Precision Engineering</i> , <b>2021</b> , 74, 36-36	2.9	0
48	Influence of Tool Length and Profile Errors on the Inaccuracy of Cubic-Machining Test Results. <i>Journal of Manufacturing and Materials Processing</i> , <b>2021</b> , 5, 51	2.2	
47	Study on the influence of geometric errors in rotary axes on cubic-machining test considering the workpiece coordinate system. <i>Precision Engineering</i> , <b>2021</b> , 71, 36-46	2.9	2
46	Analytical time constant design for jerk-limited acceleration profiles to minimize residual vibration after positioning operation in NC machine tools. <i>Precision Engineering</i> , <b>2021</b> , 71, 47-56	2.9	4
45	Evaluating the influence of mechanical system vibration characteristics on servo motor efficiency. <i>Precision Engineering</i> , <b>2021</b> , 72, 680-689	2.9	1
44	Evaluation of torque-dependent coupling characteristics and their influence on the system vibration characteristics. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2021</b> , 15, JAMDSM0060-JAMDSM0060	0.6	1
43	Experimental evaluation of mechanical and electrical power consumption of feed drive systems driven by a ball-screw. <i>Precision Engineering</i> , <b>2020</b> , 64, 280-287	2.9	5
42	Active vibration suppression of NC machine tools for high-speed contouring motions. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2020</b> , 14, JAMDSM0005-JAMDSM0005	0.6	3
41	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> , <b>2020</b> , 86, 20-00185-20-00185	0.2	1
40	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> , <b>2020</b> , 86, 20-00153-20-00153	0.2	1
39	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> , <b>2019</b> , 60, 28-41	2.9	8
38	The Norms of Manufacturing and Machine Tools 2018. <i>Transactions of the JSME (in Japanese)</i> , <b>2019</b> , 85, 19-pre04-19-pre04	0.2	
37	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> , <b>2018</b> , 84, 17-00433-17-00433	0.2	1
36	Automatic process planning system for end-milling operation considering CAM operator's intention. <i>Transactions of the JSME (in Japanese)</i> , <b>2018</b> , 84, 17-00563-17-00563	0.2	7
35	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> , <b>2018</b> , 2, 21	2.2	3
34	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> , <b>2018</b> , 84, 18-00242-18-00242	0.2	7

33	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> , <b>2017</b> , 83, 17-00254-17-00254	0.2	3
32	Instantaneous rigid force model based on oblique cutting to predict milling force. <i>Transactions of the JSME (in Japanese)</i> , <b>2017</b> , 83, 17-00247-17-00247	0.2	3
31	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> , <b>2017</b> , 2017.9, 044		
30	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> , <b>2017</b> , 2017.9, 043		1
29	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> , <b>2017</b> , 2017.9, 060		1
28	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> , <b>2017</b> , 2017.9, 042		
27	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> , <b>2017</b> , 2017.9, 045		
26	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> , <b>2016</b> , 82, 16-00006-16-00006	0.2	1
25	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> , <b>2016</b> , 10, JAMDSM0071-JAMDSM0071	0.6	6
24	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> , <b>2016</b> , 10, JAMDSM0075-JAMDSM0075	0.6	2
23	Machining operation planning system which utilize past machining operation data to generate new NC program. <i>Transactions of the JSME (in Japanese)</i> , <b>2015</b> , 81, 15-00280-15-00280	0.2	7
22	Analysis of the Coupled Vibration Between Feed Drive Systems and Machine Tool Structure. <i>International Journal of Automation Technology</i> , <b>2015</b> , 9, 689-697	0.8	16
21	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> , <b>2015</b> , 2015.8, _0104-1_-_0104-6_		
20	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> , <b>2015</b> , 2015.8, _0105-1_-_0105-6_		
19	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> , <b>2014</b> , 8, JAMDSM0044-JAMDSM0044	0.6	6
18	Finished Surface Simulation Method to Predicting the Effects of Machine Tool Motion Errors. <i>International Journal of Automation Technology</i> , <b>2014</b> , 8, 801-810	0.8	12
17	S1310206 On-Machine Measurement and Corrective Machining Using Laser Displacement Sensor. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , <b>2014</b> , 2014, _S1310206--_S1310206-	0	
16	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> , <b>2013</b> , 2013.7, 1-6		1

15	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> , <b>2013</b> , 79, 4543-4552		2
14	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> , <b>2013</b> , 79, 4613-4623		1
13	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> , <b>2013</b> , 79, 4572-4581		1
12	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> , <b>2013</b> , 2013.7, 129-134		1
11	Influence of Motion Errors of Feed Drive Systems on Machined Surface. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2012</b> , 6, 781-791	0.6	12
10	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> , <b>2011</b> , 2011.6, _3320-1_- _3320-6_		
9	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> , <b>2011</b> , 2011.6, _3338-1_- _3338-6_		
8	Machining Strategy to Adapt Cutting Conditions under Digital Copy Milling Concept. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2010</b> , 4, 924-935	0.6	3
7	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> , <b>2009</b> , 2009.5, 95-100		3
6	Rapid Removal Volume Acquisition for Tool Posture Decision in 3+2-Axis Control Milling. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2008</b> , 2, 464-473	0.6	1
5	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> , <b>2008</b> , 74, 1901-1906		3
4	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> , <b>2006</b> , 49, 50-55		9
3	Development of an innovative autonomous machine tool for dynamic product planning. <i>Science and Technology of Advanced Materials</i> , <b>2004</b> , 5, 283-291	7.1	2
2	Proposal of a concept of future oriented machine tools for advanced manufacturing systems. <i>International Journal of Production Research</i> , <b>2004</b> , 42, 3657-3673	7.8	5
1	Automatic Production Planning System to Achieve Flexible Direct Machining. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2004</b> , 47, 136-143		15