Masatomo Inui

List of Publications by Year
in descending order

41	163	1478505	1281871
papers	citations	6	11
		h-index	g-index

41	41	41	80
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Computation of Volumet6 Thickness of 3D Objects Using GPU. IEEE Robotics and Automation Letters, 2021, 6, 6717-6724.	5.1	0
2	Comparison of Two Parallel Offsetting Algorithms Free from Conflicts Between Threads. International Journal of Automation Technology, 2021, 15, 784-793.	1.0	1
3	Fast Cutter Accessibility Analysis Using Ray Tracing Cores of GPU. International Journal of Automation Technology, 2021, 15, 842-851.	1.0	1
4	Visualization of 3+2 Axis Machining Result by Combining Multiple Z-map Models. Computer-Aided Design and Applications, 2021, 19, 825-837.	0.6	0
5	Geometric simulation of power skiving of internal gear using solid model with triple-dexel representation. Procedia Manufacturing, 2020, 48, 520-527.	1.9	14
6	Accessibility Map for Assisting Cutter Posture Determination in Five-Axis Mold Machining *. , 2020, , .		1
7	Improved Algorithm to Trace Boundary Curves on Two-Dimensional Square Meshes. International Journal of Automation Technology, 2020, 14, 816-823.	1.0	0
8	Fast Dexelization of Polyhedral Models Using Ray-Tracing Cores of GPU. Computer-Aided Design and Applications, 2020, 18, 786-798.	0.6	2
9	Bounded distance field for assisting interactive layout design of water circuits. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2019, 13, JAMDSM0095-JAMDSM0095.	0.7	0
10	Contour-Type Cutter Path Computation Using Ultra-High- Resolution Dexel Model. Computer-Aided Design and Applications, 2019, 17, 621-638.	0.6	1
11	Visualization of potential sink marks using thickness analysis of finely tessellated solid model. Journal of Computational Design and Engineering, 2018, 5, 409-418.	3.1	3
12	Extraction of vertical cylinder contacting area for motorcycle safety verification. Computer-Aided Design and Applications, 2018, 15, 556-564.	0.6	0
13	Fast computation of accessibility cones for assisting 3‰+‰2 axis milling. Computer-Aided Design and Applications, 2018, 15, 667-676.	0.6	1
14	Cutter Engagement Feature Extraction Using Triple-Dexel Representation Workpiece Model and GPU Parallel Processing Function. Computer-Aided Design and Applications, 2018, 16, 89-102.	0.6	7
15	2D wavelet transform data compression with error level guarantee for Z-map models. Journal of Computational Design and Engineering, 2017, 4, 238-247.	3.1	1
16	GPU-based visualization of knee-form contact area for safety inspections. Computer-Aided Design and Applications, 2017, 14, 356-365.	0.6	1
17	Simple offset algorithm for generating workpiece solid model for milling simulation. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0042-JAMDSM0042.	0.7	2
18	Shrinking sphere: A parallel algorithm for computing the thickness of 3D objects. Computer-Aided Design and Applications, 2016, 13, 199-207.	0.6	4

#	Article	IF	Citations
19	Wavelet Transform Data Compression with an Error Level Guarantee for Z-Map Models. International Journal of Automation Technology, 2016, 10, 201-208.	1.0	3
20	Thickness and clearance visualization based on distance field of 3D objects. Journal of Computational Design and Engineering, 2015, 2, 183-194.	3.1	9
21	Visualizing sphere-contacting areas on automobile parts for ECE inspection. Journal of Computational Design and Engineering, 2015, 2, 55-66.	3.1	9
22	Automatic detection of the optimal ejecting direction based on a discrete Gauss map. Journal of Computational Design and Engineering, 2014, 1, 48-54.	3.1	5
23	A Z-Map Based Approach for Extracting the Groove Shape of Impeller. Advanced Materials Research, 2013, 748, 365-369.	0.3	0
24	Fast Detection of Head Colliding Shapes on Automobile Parts. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2013, 7, 818-826.	0.7	6
25	A Comparison of Two Methods for Geometric Milling Simulation Accelerated by GPU. Transactions of the Institute of Systems Control and Information Engineers, 2013, 26, 95-102.	0.1	3
26	Fast Estimation of Milling Result with Geometric Processing Unit. Advanced Science Letters, 2012, 10, 428-434.	0.2	1
27	Fast safety verification of interior parts of automobiles. , 2011, , .		2
28	Data Conversion Technology between Triple Dexel Model and Polygonal Model. Journal of the Japan Society for Precision Engineering, 2010, 76, 226-231.	0.1	2
29	Implementation of a 5-Axis Milling Simulation System Using Triple Dexel Models. Journal of the Japan Society for Precision Engineering, 2010, 76, 361-366.	0.1	5
30	An algorithm for determining the optimal cutter length in 3-axis milling. , 2009, , .		2
31	Cutter accessibility analysis of a part with geometric uncertainties. , 2009, , .		0
32	Study on Computer-Aided Process Planning of Mold Part Machining. Journal of the Japan Society for Precision Engineering, 2009, 75, 1129-1133.	0.1	2
33	Development of Manufacturability Verification System for Assisting Mold Design. Journal of the Japan Society for Precision Engineering, 2009, 75, 424-429.	0.1	0
34	Development of Manufacturability Verification System for Assisting Mold Design. Journal of the Japan Society for Precision Engineering, 2009, 75, 865-870.	0.1	0
35	Study on Computer-Aided Process Planning of Mold Part Machining. Journal of the Japan Society for Precision Engineering, 2008, 74, 193-197.	0.1	1
36	Using a GPU to Accelerate Die and Mold Fabrication. IEEE Computer Graphics and Applications, 2007, 27, 82-88.	1.2	23

#	Article	IF	Citations
37	A GPU based Algorithm for Determining the Optimal Cutting Direction in Deep Mold Machining. , 2007, , .		10
38	Study on Computer-Aided Process Planning of Mold Part Machining. Journal of the Japan Society for Precision Engineering, 2007, 73, 286-290.	0.1	2
39	Fast inverse offset computation using polygon rendering hardware. CAD Computer Aided Design, 2003, 35, 191-201.	2.7	37
40	Distribution System Planning Evaluation Method Using Voronoi Diagram. IEEJ Transactions on Power and Energy, 2003, 123, 1124-1132.	0.2	1
41	The Optimal Cutter Length Determining for Fixed 5-Axis Milling. Advanced Materials Research, 0, 566, 203-206.	0.3	1