

Hong-Tzong Yau

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,132
citations

201385

27
h-index

243296

44
g-index

73
all docs

73
docs citations

73
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Nesting of 3D irregular shaped objects applied to powder-based additive manufacturing. International Journal of Advanced Manufacturing Technology, 2022, 118, 1843-1858.	1.5	5
2	Direct computation of instantaneous cutting force in real-time multi-axis NC simulation. International Journal of Advanced Manufacturing Technology, 2022, 119, 6967-6978.	1.5	4
3	Assessment of the internal fit and marginal integrity of interim crowns made by different manufacturing methods. Journal of Prosthetic Dentistry, 2020, 123, 514-522.	1.1	45
4	Modeling of digital dental articulator and its accuracy verification using optical measurement. Computer Methods and Programs in Biomedicine, 2020, 196, 105646.	2.6	2
5	NC simulation for adaptive look-ahead interpolator with on-line collision detection. Computer-Aided Design and Applications, 2016, 13, 863-871.	0.4	1
6	Comparison of 3-D Printing and 5-axis Milling for the Production of Dental e-models from Intra-oral Scanning. Computer-Aided Design and Applications, 2016, 13, 32-38.	0.4	25
7	A Novel Dental Implant Guided Surgery Based on Integration of Surgical Template and Augmented Reality. Clinical Implant Dentistry and Related Research, 2015, 17, 543-553.	1.6	68
8	Innovative Force Gauge. , 2014, , .		0
9	Tooth model reconstruction based upon data fusion for orthodontic treatment simulation. Computers in Biology and Medicine, 2014, 48, 8-16.	3.9	54
10	Universal real-time NURBS interpolator on a PC-based controller. International Journal of Advanced Manufacturing Technology, 2014, 71, 497-507.	1.5	11
11	Application of robust iterative learning algorithm in motion control system. Mechatronics, 2013, 23, 530-540.	2.0	25
12	Experience-based virtual training system for knee arthroscopic inspection. BioMedical Engineering OnLine, 2013, 12, 63.	1.3	16
13	Integration of an Empirical Mode Decomposition Algorithm With Iterative Learning Control for High-Precision Machining. IEEE/ASME Transactions on Mechatronics, 2013, 18, 878-886.	3.7	27
14	The Development of Optical See-through Display Based on Augmented Reality for Oral Implant Surgery Simulation. Computer-Aided Design and Applications, 2012, 9, 111-120.	0.4	2
15	Designing Experimental Methods to Predict the Expansion Ratio of EVA Foam Material and Using Finite Element Simulation to Estimate the Shoe Expansion Shape. Materials Transactions, 2012, 53, 1685-1688.	0.4	6
16	Computer-aided process planning for NC tool path generation of complex shoe molds. International Journal of Advanced Manufacturing Technology, 2012, 58, 607-619.	1.5	18
17	Development of integrated acceleration/deceleration look-ahead interpolation technique for multi-blocks NURBS curves. International Journal of Advanced Manufacturing Technology, 2011, 56, 601-618.	1.5	28
18	Development of a hybrid iterative learning control for contouring NURBS curves. Asian Journal of Control, 2011, 13, 107-125.	1.9	18

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19	A Customized Smart CAM System for Digital Dentistry. Computer-Aided Design and Applications, 2011, 8, 395-405.	0.4	7
20	Development of a novel iterative learning control algorithm using empirical mode decomposition technique. , 2011, , .		2
21	Development of a real-time look-ahead interpolation methodology with spline-fitting technique for high-speed machining. International Journal of Advanced Manufacturing Technology, 2010, 47, 621-638.	1.5	50
22	Development of a Virtual Orthodontic Alignment System using a Haptic Device. Computer-Aided Design and Applications, 2010, 7, 889-898.	0.4	0
23	A New Approach to Accelerate NURBS Surface Rendering on GPU. Computer-Aided Design and Applications, 2009, 6, 529-538.	0.4	1
24	Generating NC tool paths from random scanned data using point-based models. International Journal of Advanced Manufacturing Technology, 2009, 41, 897-907.	1.5	17
25	Real-time NURBS interpolator: application to short linear segments. International Journal of Advanced Manufacturing Technology, 2009, 41, 1169-1185.	1.5	78
26	Efficient NC Simulation for Multi-Axis Solid Machining With a Universal APT Cutter. Journal of Computing and Information Science in Engineering, 2009, 9, .	1.7	18
27	Development of an integrated look-ahead dynamics-based NURBS interpolator for high precision machinery. CAD Computer Aided Design, 2008, 40, 554-566.	1.4	85
28	An Adaptive Region Growing Method to Segment Inferior Alveolar Nerve Canal from 3D Medical Images for Dental Implant Surgery. Computer-Aided Design and Applications, 2008, 5, 743-752.	0.4	25
29	Computer-aided Framework Design for Digital Dentistry. Computer-Aided Design and Applications, 2008, 5, 667-675.	0.4	4
30	On acceleration/deceleration hybrid interpolation for multi-blocks of NURBS curves. , 2008, , .		2
31	FPGA-based motion controller with real-time look-ahead function. , 2008, , .		3
32	PC-based Controller with Real-time Look-ahead NURBS Interpolator. Computer-Aided Design and Applications, 2007, 4, 331-340.	0.4	13
33	Development of real-time look-ahead algorithm for NURBS interpolator with consideration of servo dynamics. , 2007, , .		3
34	An integrated look-ahead dynamic interpolator for NURBS curve. , 2007, , .		2
35	Automatic Registration Using Virtual Polar Ball. Computer-Aided Design and Applications, 2007, 4, 427-436.	0.4	1
36	Development of a dynamics-based NURBS interpolator with real-time look-ahead algorithm. International Journal of Machine Tools and Manufacture, 2007, 47, 2246-2262.	6.2	195

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37	Fast Bezier interpolator with real-time lookahead function for high-accuracy machining. International Journal of Machine Tools and Manufacture, 2007, 47, 1518-1529.	6.2	90
38	Development of a Dental Training System Based on Point-based Models. Computer-Aided Design and Applications, 2006, 3, 779-787.	0.4	14
39	A new combinatorial approach to surface reconstruction with sharp features. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 73-82.	2.9	21
40	Development of command-based iterative learning control algorithm with consideration of friction, disturbance, and noise effects. IEEE Transactions on Control Systems Technology, 2006, 14, 511-518.	3.2	35
41	Octree-based Virtual Dental Training System with a Haptic Device. Computer-Aided Design and Applications, 2006, 3, 415-424.	0.4	30
42	Real-time NURBS interpolation using FPGA for high speed motion control. CAD Computer Aided Design, 2006, 38, 1123-1133.	1.4	71
43	A Delaunay-based region-growing approach to surface reconstruction from unorganized points. CAD Computer Aided Design, 2005, 37, 825-835.	1.4	52
44	A new approach to z-level contour machining of triangulated surface models using fillet endmills. CAD Computer Aided Design, 2005, 37, 1039-1051.	1.4	31
45	Adaptive NC Simulation for Multi-axis Solid Machining. Computer-Aided Design and Applications, 2005, 2, 95-104.	0.4	16
46	NC Tool-Path Generation Based on Surfel Models Constructed from Random Scanned Data. Computer-Aided Design and Applications, 2005, 2, 567-576.	0.4	2
47	NC simulation with dynamic errors due to high-speed motion. International Journal of Advanced Manufacturing Technology, 2004, 23, 577-585.	1.5	10
48	Optimal process conditions of shrinkage and warpage of thin-wall parts. Polymer Engineering and Science, 2004, 44, 917-928.	1.5	125
49	Clean-up tool path generation by contraction tool method for machining complex polyhedral models. Computers in Industry, 2004, 54, 17-33.	5.7	31
50	A Delaunay-Based Region-Growing Approach to Surface Reconstruction from Unorganized Points. Computer-Aided Design and Applications, 2004, 1, 73-82.	0.4	1
51	Numerical control machining of triangulated sculptured surfaces in a stereo lithography format with a generalized cutter. International Journal of Production Research, 2004, 42, 2573-2598.	4.9	24
52	Extension of surface reconstruction algorithm to the global stitching and repairing of STL models. CAD Computer Aided Design, 2003, 35, 477-486.	1.4	35
53	Reconstruction of Virtual Parts from Unorganized Scanned Data for Automated Dimensional Inspection. Journal of Computing and Information Science in Engineering, 2003, 3, 76-86.	1.7	17
54	A Reverse Engineering Approach to Generating Interference-Free Tool Paths in Three-Axis Machining from Scanned Data of Physical Models. International Journal of Advanced Manufacturing Technology, 2002, 19, 23-31.	1.5	28

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55	NURBS machining and feed rate adjustment for high-speed cutting of complex sculptured surfaces. International Journal of Production Research, 2001, 39, 21-41.	4.9	80
56	Registration and integration of multiple laser scanned data for reverse engineering of complex 3D models. International Journal of Production Research, 2000, 38, 269-285.	4.9	37
57	A model-based approach to form tolerance evaluation using non-uniform rational B-splines. Robotics and Computer-Integrated Manufacturing, 1999, 15, 283-295.	6.1	11
58	Uncertainty analysis in geometric best fit. International Journal of Machine Tools and Manufacture, 1998, 38, 1323-1342.	6.2	15
59	Generalization and evaluation of vectorial tolerances. International Journal of Production Research, 1997, 35, 1763-1784.	4.9	9
60	Evaluation and uncertainty analysis of vectorial tolerances. Precision Engineering, 1997, 20, 123-137.	1.8	20
61	Reverse engineering of complex geometry using rational B-splines. International Journal of Advanced Manufacturing Technology, 1997, 13, 548-555.	1.5	23
62	Reverse engineering of engine intake ports by digitization and surface approximation. International Journal of Machine Tools and Manufacture, 1997, 37, 855-871.	6.2	34
63	Extension of Vectorial Tolerances for Coordinate Measurement Analysis. , 1997, , .		0
64	A unified least-squares approach to the evaluation of geometric errors using discrete measurement data. International Journal of Machine Tools and Manufacture, 1996, 36, 1269-1290.	6.2	49
65	Automated CMM path planning for dimensional inspection of dies and molds having complex surfaces. International Journal of Machine Tools and Manufacture, 1995, 35, 861-876.	6.2	55
66	Concurrent process planning for finish milling and dimensional inspection of sculptured surfaces in die and mould manufacturing. International Journal of Production Research, 1993, 31, 2709-2725.	4.9	10
67	An Intelligent Planning Environment for Automated Dimensional Inspection Using Coordinate Measuring Machines. Journal of Engineering for Industry, 1992, 114, 222-230.	0.8	52
68	An automated dimensional inspection environment for manufactured parts using coordinate measuring machines. International Journal of Production Research, 1992, 30, 1517-1536.	4.9	51
69	Automated precision measurement of surface profile in CAD-directed inspection. IEEE Transactions on Automation Science and Engineering, 1992, 8, 268-278.	2.4	171
70	Design and implementation of real-time NURBS interpolator using a FPGA-based motion controller. , 0, , .		7
71	Development and implementation for real-time lookahead interpolator by using Bezier curve to fit CNC continuous short blocks. , 0, , .		6
72	Command-based iterative learning control for compensation of servo lag and friction effects. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	Fast Numerical Algorithm for Optimization Mold Shape of Direct Injection Molding Process. Materials and Manufacturing Processes, 0, , 120911062332002.	2.7	8