

Yanlong Cao

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,366
citations

430874

18
h-index

361022

35
g-index

65
all docs

65
docs citations

65
times ranked

1137
citing authors

#	ARTICLE	IF	CITATIONS
1	A deep-learning-based approach for fast and robust steel surface defects classification. Optics and Lasers in Engineering, 2019, 121, 397-405.	3.8	165
2	Fusion of multispectral data through illumination-aware deep neural networks for pedestrian detection. Information Fusion, 2019, 50, 148-157.	19.1	160
3	A deep learning-based surface defect inspection system using multi-scale and channel-compressed features. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	4.7	89
4	Modeling and simulation of grinding surface topography considering wheel vibration. International Journal of Advanced Manufacturing Technology, 2013, 66, 937-945.	3.0	70
5	Pedestrian detection with unsupervised multispectral feature learning using deep neural networks. Information Fusion, 2019, 46, 206-217.	19.1	65
6	MRFN: Multi-Receptive-Field Network for Fast and Accurate Single Image Super-Resolution. IEEE Transactions on Multimedia, 2020, 22, 1042-1054.	7.2	62
7	Single-phase and Two-phase Flow and Heat Transfer in Microchannel Heat Sink with Various Manifold Arrangements. International Journal of Heat and Mass Transfer, 2021, 171, 121118.	4.8	57
8	A comprehensive review of tolerance analysis models. International Journal of Advanced Manufacturing Technology, 2018, 97, 3055-3085.	3.0	55
9	Cascaded Deep Networks With Multiple Receptive Fields for Infrared Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2310-2322.	8.3	52
10	Two-stream convolutional neural network for non-destructive subsurface defect detection via similarity comparison of lock-in thermography signals. NDT and E International, 2020, 112, 102246.	3.7	40
11	A hybrid approach for the automation of functional decomposition in conceptual design. Journal of Engineering Design, 2016, 27, 333-360.	2.3	34
12	Implementation uncertainty evaluation of cylindricity errors based on geometrical product specification (GPS). Measurement: Journal of the International Measurement Confederation, 2009, 42, 742-747.	5.0	33
13	Box-level segmentation supervised deep neural networks for accurate and real-time multispectral pedestrian detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 70-79.	11.1	32
14	A Geometric Structure-Based Particle Swarm Optimization Algorithm for Multiobjective Problems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-22.	9.3	25
15	A new method for arrival time determination of impact signal based on HHT and AIC. Mechanical Systems and Signal Processing, 2017, 86, 177-187.	8.0	25
16	Multivariate process capability evaluation of cloud manufacturing resource based on intuitionistic fuzzy set. International Journal of Advanced Manufacturing Technology, 2016, 84, 227-237.	3.0	24
17	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. Applied Optics, 2018, 57, D108.	1.8	20
18	Numerical study of flow reversal during bubble growth and confinement of flow boiling in microchannels. International Journal of Heat and Mass Transfer, 2021, 177, 121491.	4.8	20

#	ARTICLE	IF	CITATIONS
19	Fast and accurate single image super-resolution via an energy-aware improved deep residual network. <i>Signal Processing</i> , 2019, 162, 115-125.	3.7	18
20	Tolerance design with multiple resource suppliers on cloud-manufacturing platform. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 335-346.	3.0	17
21	Energy-efficiency-oriented scheduling in smart manufacturing. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019, 10, 969-978.	4.9	17
22	A novel tolerance analysis method for three-dimensional assembly. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 1818-1827.	2.4	16
23	Influence of Tool Assembly Error on Machined Surface in Peripheral Milling Process. <i>Procedia CIRP</i> , 2015, 27, 137-142.	1.9	15
24	A generic approach for analysis of mechanical assembly. <i>Precision Engineering</i> , 2018, 54, 361-370.	3.4	15
25	A computer-aided tolerance specification method based on multiple attributes decision-making. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 1735-1750.	3.0	15
26	Study on functional specification scheme on interface based on positioning features. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2013, 227, 745-753.	2.4	14
27	Spatially Adaptive Column Fixed-Pattern Noise Correction in Infrared Imaging System Using 1D Horizontal Differential Statistics. <i>IEEE Photonics Journal</i> , 2017, 9, 1-13.	2.0	14
28	A method for extracting weak impact signal in NPP based on adaptive Morlet wavelet transform and kurtosis. <i>Progress in Nuclear Energy</i> , 2018, 105, 211-220.	2.9	14
29	Spatio-Temporal 3-D Residual Networks for Simultaneous Detection and Depth Estimation of CFRP Subsurface Defects in Lock-In Thermography. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 2571-2581.	11.3	13
30	Locality guided cross-modal feature aggregation and pixel-level fusion for multispectral pedestrian detection. <i>Information Fusion</i> , 2022, 88, 1-11.	19.1	12
31	Energy modeling and efficiency analysis of aluminum die-casting processes. <i>Energy Efficiency</i> , 2019, 12, 1167-1182.	2.8	11
32	Conjugate heat transfer analysis of bubble growth during flow boiling in a rectangular microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121828.	4.8	11
33	Study on tolerance modeling of complex surface. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 53, 1183-1188.	3.0	9
34	A Concurrent Design Method for Functional Tolerance and Structure based on the Principle of Decomposition and Reconstitution. <i>Procedia CIRP</i> , 2013, 10, 194-202.	1.9	9
35	Fusion of multi-light source illuminated images for effective defect inspection on highly reflective surfaces. <i>Mechanical Systems and Signal Processing</i> , 2022, 175, 109109.	8.0	9
36	Lathe errors identification based on surface topography analysis after turning. <i>Precision Engineering</i> , 2016, 46, 243-253.	3.4	8

#	ARTICLE	IF	CITATIONS
37	The Strategy of Datum Reference Frame Selection Based on Statistical Learning. Journal of Computing and Information Science in Engineering, 2018, 18, .	2.7	8
38	Accurate salient object detection via dense recurrent connections and residual-based hierarchical feature integration. Signal Processing: Image Communication, 2019, 78, 103-112.	3.2	8
39	A rule-based exclusion method for tolerance specification of revolving components. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 527-537.	2.4	8
40	An Alarm Method for a Loose Parts Monitoring System. Shock and Vibration, 2012, 19, 753-761.	0.6	7
41	An error prediction model of NC machining process considering multiple error sources. International Journal of Advanced Manufacturing Technology, 2018, 94, 1689-1698.	3.0	7
42	Tolerance specification of the plane feature based on the axiomatic design. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 1481-1492.	2.1	7
43	A numerical study of slug bubble growth during flow boiling in a diverging microchannel. Numerical Heat Transfer; Part A: Applications, 2021, 80, 356-367.	2.1	7
44	The value network optimization research based on the Analytic Hierarchy Process method and the dynamic programming of cloud manufacturing. International Journal of Advanced Manufacturing Technology, 2016, 84, 425-433.	3.0	6
45	Multi-scale prediction of the geometrical deviations of the surface finished by five-axis ball-end milling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1685-1702.	2.4	6
46	Study on Generation of 3D Assembly Dimension Chain. Procedia CIRP, 2015, 27, 163-168.	1.9	5
47	Light field angular super-resolution based on structure and scene information. Applied Intelligence, 2023, 53, 4767-4783.	5.3	4
48	A method for weak impact signal discrimination based on para-approximate entropy. Progress in Nuclear Energy, 2012, 60, 53-60.	2.9	3
49	Study on Resource Configuration on Cloud Manufacturing. Mathematical Problems in Engineering, 2015, 2015, 1-13.	1.1	3
50	Detection method of loose parts in nuclear reactor based on eigenvector algorithm. Progress in Nuclear Energy, 2016, 91, 250-255.	2.9	3
51	Efficient recognition of undesired coupling effects in system design of multidisciplinary products. Journal of Engineering Design, 2016, 27, 665-696.	2.3	3
52	Study on extraction of electrical runout in eddy current measurement using finite element method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1077-1086.	2.1	2
53	Local Phase Correction Method Based on Multi-Frequency Phase Heterodyne. , 2021, , .		2
54	Boosting Image Super-Resolution via Fusion of Complementary Information Captured by Multi-Modal Sensors. IEEE Sensors Journal, 2022, 22, 3405-3416.	4.7	2

#	ARTICLE	IF	CITATIONS
55	Wavelet-based texture model for crowd dynamic analysis. , 2017, , .		1
56	Influence of tool rotation errors on flank machined surface. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2420-2429.	2.4	1
57	Study on the Robust Tolerance Design with Multiple Resource Suppliers on Cloud Manufacturing Platform. Procedia CIRP, 2018, 75, 63-68.	1.9	1
58	Towards a Novel Phase Unwrapping Model for Three Dimensional Measurement. , 2021, , .		1
59	Flow Pattern Analysis and Heat Transfer Characteristics During Subcooled Flow Boiling in a Rectangular Microchannel On ZnO Micro-Rod Surface. Journal of Heat Transfer, 2021, , .	2.1	1
60	Single-image super-resolution via selective multi-scale network. Signal, Image and Video Processing, 2022, 16, 937-945.	2.7	1
61	A Novel Learning Based Non-Lambertian Photometric Stereo Method for Pixel-Level Normal Reconstruction of Polished Surfaces. Machines, 2022, 10, 120.	2.2	1
62	Fuzzy comprehensive evaluation of manufacturability in concurrent tolerance design. , 2009, , .		0
63	Multimodal Fusion Architectures for Pedestrian Detection. , 2019, , 101-133.		0
64	Study on the measurement of global sizes of cylindrical parts using Talyrond 585LT. , 2019, , .		0