Yanlong Cao

List of Publications by Year
in descending order

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	Light field angular super-resolution based on structure and scene information. Applied Intelligence, 2023, 53, 4767-4783.	5.3	4
2	Spatio-Temporal 3-D Residual Networks for Simultaneous Detection and Depth Estimation of CFRP Subsurface Defects in Lock-In Thermography. IEEE Transactions on Industrial Informatics, 2022, 18, 2571-2581.	11.3	13
3	Single-image super-resolution via selective multi-scale network. Signal, Image and Video Processing, 2022, 16, 937-945.	2.7	1
4	Boosting Image Super-Resolution via Fusion of Complementary Information Captured by Multi-Modal Sensors. IEEE Sensors Journal, 2022, 22, 3405-3416.	4.7	2
5	A Novel Learning Based Non-Lambertian Photometric Stereo Method for Pixel-Level Normal Reconstruction of Polished Surfaces. Machines, 2022, 10, 120.	2.2	1
6	Fusion of multi-light source illuminated images for effective defect inspection on highly reflective surfaces. Mechanical Systems and Signal Processing, 2022, 175, 109109.	8.0	9
7	Locality guided cross-modal feature aggregation and pixel-level fusion for multispectral pedestrian detection. Information Fusion, 2022, 88, 1-11.	19.1	12
8	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
9	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
10	Towards a Novel Phase Unwrapping Model for Three Dimensional Measurement. , 2021, , .		1
11	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
12	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
13	Conjugate heat transfer analysis of bubble growth during flow boiling in a rectangular microchannel. International Journal of Heat and Mass Transfer, 2021, 181, 121828.	4.8	11
14	Local Phase Correction Method Based on Multi-Frequency Phase Heterodyne. , 2021, , .		2
15	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
16	MRFN: Multi-Receptive-Field Network for Fast and Accurate Single Image Super-Resolution. IEEE Transactions on Multimedia, 2020, 22, 1042-1054.	7.2	62
17	A computer-aided tolerance specification method based on multiple attributes decision-making. International Journal of Advanced Manufacturing Technology, 2020, 111, 1735-1750.	3.0	15
18	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

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19	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
20	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
21	Pedestrian detection with unsupervised multispectral feature learning using deep neural networks. Information Fusion, 2019, 46, 206-217.	19.1	65
22	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
23	Multimodal Fusion Architectures for Pedestrian Detection. , 2019, , 101-133.		0
24	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
25	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
26	Fast and accurate single image super-resolution via an energy-aware improved deep residual network. Signal Processing, 2019, 162, 115-125.	3.7	18
27	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
28	Study on the measurement of global sizes of cylindrical parts using Talyrond 585LT. , 2019, , .		0
29	A novel tolerance analysis method for three-dimensional assembly. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1818-1827.	2.4	16
30	Energy-efficiency-oriented scheduling in smart manufacturing. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 969-978.	4.9	17
31	Fusion of multispectral data through illumination-aware deep neural networks for pedestrian detection. Information Fusion, 2019, 50, 148-157.	19.1	160
32	Energy modeling and efficiency analysis of aluminum die-casting processes. Energy Efficiency, 2019, 12, 1167-1182.	2.8	11
33	A method for extracting weak impact signal in NPP based on adaptive Morlet wavelet transform and kurtosis. Progress in Nuclear Energy, 2018, 105, 211-220.	2.9	14
34	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
35	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
36	Study on the Robust Tolerance Design with Multiple Resource Suppliers on Cloud Manufacturing Platform. Procedia CIRP, 2018, 75, 63-68.	1.9	1

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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	A comprehensive review of tolerance analysis models. International Journal of Advanced Manufacturing Technology, 2018, 97, 3055-3085.	3.0	55
39	A generic approach for analysis of mechanical assembly. Precision Engineering, 2018, 54, 361-370.	3.4	15
40	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. Applied Optics, 2018, 57, D108.	1.8	20
41	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
42	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
43	Spatially Adaptive Column Fixed-Pattern Noise Correction in Infrared Imaging System Using 1D Horizontal Differential Statistics. IEEE Photonics Journal, 2017, 9, 1-13.	2.0	14
44	Wavelet-based texture model for crowd dynamic analysis. , 2017, , .		1
45	Detection method of loose parts in nuclear reactor based on eigenvector algorithm. Progress in Nuclear Energy, 2016, 91, 250-255.	2.9	3
46	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
47	Efficient recognition of undesired coupling effects in system design of multidisciplinary products. Journal of Engineering Design, 2016, 27, 665-696.	2.3	3
48	Lathe errors identification based on surface topography analysis after turning. Precision Engineering, 2016, 46, 243-253.	3.4	8
49	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
50	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
51	Tolerance design with multiple resource suppliers on cloud-manufacturing platform. International Journal of Advanced Manufacturing Technology, 2016, 84, 335-346.	3.0	17
52	A hybrid approach for the automation of functional decomposition in conceptual design. Journal of Engineering Design, 2016, 27, 333-360.	2.3	34
53	Study on Generation of 3D Assembly Dimension Chain. Procedia CIRP, 2015, 27, 163-168.	1.9	5
54	Study on Resource Configuration on Cloud Manufacturing. Mathematical Problems in Engineering, 2015, 2015, 1-13.	1.1	3

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55	Influence of Tool Assembly Error on Machined Surface in Peripheral Milling Process. Procedia CIRP, 2015, 27, 137-142.	1.9	15
56	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
57	Modeling and simulation of grinding surface topography considering wheel vibration. International Journal of Advanced Manufacturing Technology, 2013, 66, 937-945.	3.0	70
58	A Concurrent Design Method for Functional Tolerance and Structure based on the Principle of Decomposition and Reconstitution. Procedia CIRP, 2013, 10, 194-202.	1.9	9
59	Study on functional specification scheme on interface based on positioning features. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 745-753.	2.4	14
60	A method for weak impact signal discrimination based on para-approximate entropy. Progress in Nuclear Energy, 2012, 60, 53-60.	2.9	3
61	An Alarm Method for a Loose Parts Monitoring System. Shock and Vibration, 2012, 19, 753-761.	0.6	7
62	Study on tolerance modeling of complex surface. International Journal of Advanced Manufacturing Technology, 2011, 53, 1183-1188.	3.0	9
63	Fuzzy comprehensive evaluation of manufacturability in concurrent tolerance design. , 2009, , .		0
64	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