

Chengdong Wu

List of Publications by Year in descending order

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131
papers

872
citations

759055

12
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24
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132
all docs

132
docs citations

132
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Localization in Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2012, 8, 962523.	1.3	190
2	Automatic Microaneurysm Detection Using the Sparse Principal Component Analysis-Based Unsupervised Classification Method. IEEE Access, 2017, 5, 2563-2572.	2.6	71
3	Automatic Detection of Exudates in Digital Color Fundus Images Using Superpixel Multi-Feature Classification. IEEE Access, 2017, 5, 17077-17088.	2.6	54
4	Research of Intelligent Home Security Surveillance System Based on ZigBee. , 2008, , .		53
5	AFM-Based Robotic Nano-Hand for Stable Manipulation at Nanoscale. IEEE Transactions on Automation Science and Engineering, 2013, 10, 285-295.	3.4	46
6	Single Low-Dose CT Image Denoising Using a Generative Adversarial Network With Modified U-Net Generator and Multi-Level Discriminator. IEEE Access, 2020, 8, 133470-133487.	2.6	21
7	Kalman Filter for Spatial-Temporal Regularized Correlation Filters. IEEE Transactions on Image Processing, 2021, 30, 3263-3278.	6.0	19
8	Fabrication of single-walled carbon nanotube-based highly sensitive gas sensors. Science China Technological Sciences, 2013, 56, 32-35.	2.0	18
9	Indoor Mobile Localization in Wireless Sensor Network under Unknown NLOS Errors. International Journal of Distributed Sensor Networks, 2013, 9, 208904.	1.3	17
10	Dynamic hand gesture recognition using motion trajectories and key frames. , 2010, , .		16
11	Three-dimensional robot localization using cameras in wireless multimedia sensor networks. Journal of Network and Computer Applications, 2019, 146, 102425.	5.8	14
12	Automatic Optic Disc Boundary Extraction Based on Saliency Object Detection and Modified Local Intensity Clustering Model in Retinal Images. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2069-2072.	0.2	13
13	3D Temperature Distribution Model Based on Thermal Infrared Image. Journal of Sensors, 2017, 2017, 1-10.	0.6	12
14	Compound Event Barrier Coverage in Wireless Sensor Networks under Multi-Constraint Conditions. Sensors, 2017, 17, 25.	2.1	12
15	Localization Algorithm Based on RSSI and Distance Geometry Constrains for Wireless Sensor Network. , 2010, , .		11
16	The Indoor Localization and Tracking Estimation Method of Mobile Targets in Three-Dimensional Wireless Sensor Networks. Sensors, 2015, 15, 29661-29684.	2.1	10
17	Vote selection mechanisms and probabilistic data association-based mobile node localization algorithm in mixed LOS/NLOS environments. Telecommunication Systems, 2016, 62, 641-655.	1.6	10
18	Automatic Optic Disc Segmentation Based on Modified Local Image Fitting Model with Shape Prior Information. Journal of Healthcare Engineering, 2019, 2019, 1-10.	1.1	10

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19	Global Shape Reconstruction of the Bended AFM Cantilever. IEEE Nanotechnology Magazine, 2012, 11, 713-719.	1.1	9
20	Indoor Localization Algorithm for TDOA Measurement in NLOS Environments. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1149-1152.	0.2	9
21	Single-Walled Carbon Nanotube-Based Gas Sensors for NO ₂ Detection. Integrated Ferroelectrics, 2012, 135, 132-137.	0.3	8
22	Study on the large-scale assembly and fabrication method for SWCNTs nano device. Science China: Physics, Mechanics and Astronomy, 2013, 56, 556-561.	2.0	8
23	WSN Deployment and Localization Using a Mobile Agent. Wireless Personal Communications, 2017, 97, 4921-4931.	1.8	8
24	Scene classification based on gray level-gradient co-occurrence matrix in the neighborhood of interest points. , 2009, , .		7
25	Classification of multi-channels SEMG signals using wavelet and neural networks on assistive robot. , 2012, , .		7
26	Rotation and affine-invariant SIFT descriptor for matching UAV images with satellite images. , 2014, , .		7
27	Twin pinball loss support vector hyper-sphere classifier for pattern recognition. , 2016, , .		7
28	Motion vehicle tracking based on multi-resolution optical flow and multi-scale Harris corner detection. , 2007, , .		6
29	Multi-resolution optical flow tracking algorithm based on multi-scale Harris corner points feature. , 2008, , .		6
30	Level Set Based Coverage Holes Detection and Holes Healing Scheme in Hybrid Sensor Network. International Journal of Distributed Sensor Networks, 2013, 9, 297383.	1.3	6
31	The Strip Steel Surface Defect Recognition Based on Multiple Support Vector Hyper-Sphere with Feature and Sample Weights. Steel Research International, 2016, 87, 1678-1685.	1.0	6
32	Full-Automatic Optic Disc Boundary Extraction Based on Active Contour Model with Multiple Energies. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 658-661.	0.2	6
33	Indoor Robot Localization Based on Multidimensional Scaling. International Journal of Distributed Sensor Networks, 2015, 11, 719658.	1.3	6
34	An Improved Two-Stage Camera Calibration Method. , 2006, , .		5
35	A review of Traffic Visual Tracking technology. , 2008, , .		5
36	A noble data aggregation algorithm for low latency in wireless sensor network. , 2010, , .		5

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37	EEG based automatic left-right hand movement classification. , 2012, , .		5
38	Automated Detection of Red Lesions Using Superpixel Multichannel Multifeature. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-13.	0.7	5
39	Affine Geometrical Region CNN for Object Tracking. IEEE Access, 2020, 8, 68638-68648.	2.6	5
40	A Novel Approach to 2-D Shape Representation Based on Equilateral Polygonal Approximation. , 2008, , .		4
41	A new algorithm for multiple-source localization based On acoustic energy in wieless sensor networks. , 2009, , .		4
42	Global depth from defocus with fixed camera parameters. , 2009, , .		4
43	Hand extraction using geometric moments based on active skin color model. , 2009, , .		4
44	An improved DV-Hop localization algorithm. , 2010, , .		4
45	Modeling and analyzing nano-particle pushing with an AFM by using nano-hand strategy. , 2010, , .		4
46	A time-dependent anisotropic diffusion image smoothing method. , 2011, , .		4
47	Global shape reconstruction of nano grid with singly fixed camera. Science China Technological Sciences, 2011, 54, 1044-1052.	2.0	4
48	Robot assisted maintenance strategy in wireless sensor networks. , 2012, , .		4
49	Modeling of nano piezoelectric actuator based on block matching algorithm with optimal block size. Science China Technological Sciences, 2013, 56, 2649-2657.	2.0	4
50	A rescue-assist wireless sensor networks for large building. , 2013, , .		4
51	Energy-based sensor network multiple-source localization via a new EM algorithm. , 2008, , .		3
52	Cooperative hunting of multiple mobile robots under unknown dynamic environment. , 2009, , .		3
53	Research of nodes deployment for wireless sensor network in determinstic area. , 2009, , .		3
54	An Automatic Surface Elasticity Measurement and Error Compensation Method Based on Contact Mode AFM. IEEE Nanotechnology Magazine, 2011, 10, 1306-1313.	1.1	3

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55	The deployment algorithm of heterogeneous wireless sensor networks based on energy-balance. , 2013, , .		3
56	Multi-class Classification Method Based on Support Vector Machine with Hyper-sphere for Steel surface Defects. , 2018, , .		3
57	Automatic Segmentation of Optic Disc and Cup in Retinal Fundus Images Using Improved Two-Layer Level Set Method. Mathematical Problems in Engineering, 2019, 2019, 1-10.	0.6	3
58	Research on Image Adaptive Enhancement Algorithm under Low Light in License Plate Recognition System. Symmetry, 2020, 12, 1552.	1.1	3
59	Node Redeployment for Effective Prolong Maintenance Period in Wireless Sensor Networks. IEICE Transactions on Communications, 2012, E95.B, 3179-3186.	0.4	3
60	An Efficient Hierarchical Optic Disc and Cup Segmentation Network Combined with Multi-task Learning and Adversarial Learning. Journal of Digital Imaging, 2022, 35, 638-653.	1.6	3
61	Gait pattern estimation for intelligent bionic leg. , 2008, , .		2
62	Innovation Quality Cultivation of College Students by Scientific Contest. , 2009, , .		2
63	Recognition of dynamic hand gesture based on SCHMM model. , 2009, , .		2
64	Study of intelligent video monitoring technology. , 2010, , .		2
65	An automatic compensation method on compression effect and surface elasticity measurement based on the deflection signal of AFM. Science China Technological Sciences, 2011, 54, 2397-2403.	2.0	2
66	Multiple-source localization in binary sensor networks. , 2012, , .		2
67	A potential function and artificial neural network for path planning in dynamic environments based on self-reconfigurable mobile robot system. , 2012, , .		2
68	A Data/Image Transmission Device Based on TCP/IP Protocol. , 2012, , .		2
69	Active Tension Control for WT Wheelchair Robot by Using a Novel Control Law for Holonomic or Nonholonomic Systems. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	2
70	Localization in Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2013, 9, 457874.	1.3	2
71	A Novel Mobile Localization Method for Distributed Sensor Network with Non-Line-of-Sight Error Mitigation. International Journal of Distributed Sensor Networks, 2014, 10, 154896.	1.3	2
72	Conjugate gradient algorithm for efficient covariance tracking with Jensen-Bregman LogDet metric. IET Computer Vision, 2015, 9, 814-820.	1.3	2

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73	Hybrid filter localization algorithm based on the selection mechanism. , 2015, , .		2
74	Shape Reconstruction Based on a New Blurring Model at the Micro/Nanometer Scale. Sensors, 2016, 16, 302.	2.1	2
75	Automatic optic disc detection in retinal images via group sparse regularization extreme learning machine. , 2017, , .		2
76	Collaborative Synchronization Mechanism in Wireless Multimedia Sensor Networks. Wireless Personal Communications, 2017, 96, 1929-1943.	1.8	2
77	Collaboration calibration and three-dimensional localization in multi-view system. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881377.	1.3	2
78	A Novel Video Transmission Optimization Mechanism Based on Reinforcement Learning and Edge Computing. Mobile Information Systems, 2021, 2021, 1-10.	0.4	2
79	The Application of Distributed Neural Network Fault Diagnosis Technique in Process Control. , 2006, , .		1
80	An improved two-stage camera calibration method based on evolution calculation. , 2008, , .		1
81	Research on Robotic Popular Science System Based on LEGO Bricks. , 2008, , .		1
82	Distributed energy-based multi-source localization in wireless sensor network. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1
83	Design of Control System for Mobile Robot Based on DSP Processor. , 2008, , .		1
84	Study on key technology of metallographical image processing and recognition. , 2008, , .		1
85	A new model of visual attention selection based on Amplitude Modulation Fourier Transform. , 2009, , .		1
86	A hybrid actuation scheme of trans-femoral prosthesis for motion adaptation. , 2009, , .		1
87	The Task Assignment Solution for Multi-Target Pursuit Problem. , 2009, , .		1
88	Analysis, comparison and improvement of block matching based sub-pixel motion measurement methods for image sequences. , 2009, , .		1
89	Research of Portable Information Terminal Based on MIPS Processor and Windows CE. , 2009, , .		1
90	A communication quality improved routing protocol for wireless sensor network. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
91	An embedded wireless transmission system based on the extended user datagram protocol (EUDP). , 2010, , .		1
92	Design of node in wireless sensor network. , 2010, , .		1
93	Design of elevator audio player controlled by wireless communication. , 2010, , .		1
94	Notice of Retraction: Improve the Science and Engineering Students' Creative Ability Through Research Project. , 2010, , .		1
95	A noble target tracking algorithm based on dynamic clustering for wireless sensor network. , 2011, , .		1
96	Study of gait symmetry quantification and its application to intelligent prosthetic leg development. , 2011, , .		1
97	Design of Point to Multi-Point Wireless Communication System Based on ZigBee. , 2011, , .		1
98	Pavement image denoising based on shearlet transform. , 2011, , .		1
99	Study on the optimal passive creeping control of the snake-like robot. , 2012, , .		1
100	A New Digital Image Restoration Model Based on Local Constraints. , 2012, , .		1
101	Robust object tracking with multiple basic mean shift tracker. , 2012, , .		1
102	A Novel NLOS Localization Method Based on Tabu Search. , 2013, , .		1
103	Active tension optimal control for WT wheelchair robot by using a novel control law for holonomic or nonholonomic systems. Science China Information Sciences, 2014, 57, 1-15.	2.7	1
104	Lung nodules classification based on growth changes and registration technology. , 2016, , .		1
105	Passive target localization in multi-view system. , 2016, , .		1
106	Convolutional Features Combining SL(3) Group for Visual Tracking. IEEE Access, 2020, 8, 61096-61106.	2.6	1
107	An End-to-End Localizer for Long-Term Topological Localization in Large-Scale Changing Environments. IEEE Transactions on Industrial Electronics, 2023, 70, 5140-5149.	5.2	1
108	3D Reconstruction Based on a Fast Area-based Stereo Matching Algorithm. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
109	The Exploration and Practice of Talents Foster Mode about Information Science in Country-Oriented Information-Based Strategy. , 2008, , .		0
110	Bilayer-based data aggregation algorithm for low latency in wireless sensor networks. , 2010, , .		0
111	A height error compensation method based on contact mode AFM. , 2010, , .		0
112	Shape-shifting robot path planning method based on reconfiguration performance. , 2010, , .		0
113	Research on the control station system for a shape-shifting search and rescue robot. , 2010, , .		0
114	A path planning method for a shape-shifting robot. , 2010, , .		0
115	RBF Optimization control based on PSO for elevator group system. , 2011, , .		0
116	A Hidden Markov Model method for traffic incident detection using multiple features. , 2011, , .		0
117	Large-scale assembly of single-walled carbon nanotube field effect transistor. , 2012, , .		0
118	Study on the continuous direction control for the snake-like robot. , 2012, , .		0
119	A novel image smoothing model based on orientation information measure. , 2012, , .		0
120	A Robust Monte Carlo Tracking Algorithm Based on Feature Adaptive Selection. , 2012, , .		0
121	Modeling of nano piezoelectric actuator based on block matching algorithm with optimal block size. , 2013, , .		0
122	Three-dimensional localisation for wireless sensor networks using probabilistic fuzzy logic. , 2013, , .		0
123	High Yield Assembly of Cu/CuO Nanowires Device. Integrated Ferroelectrics, 2014, 154, 20-27.	0.3	0
124	Application of wireless sensor network in the monitoring system of boiler. , 2014, , .		0
125	Indoor scene segmentation with semantic cuboids. , 2015, , .		0
126	Fast depth reconstruction with a defocus model on micro scale. , 2015, , .		0

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127	Online selection of discriminative features with approximated distribution fields for efficient object tracking. , 2015, , .		0
128	Robust Object Tracking Using Affine Transformation and Convolutional Features. IEEE Access, 2019, 7, 182489-182498.	2.6	0
129	AFM Nanomanipulation with Tip Morphology Estimation and Positioning Compensation. , 2019, , .		0
130	Image Enhancement Algorithm of Vehicle Recognition under High Light Based on Deep Learning. , 2021, , .		0
131	Application of Sparse-Channel Lidar Sensors on Viewpoint-Invariant Loop Closing Task. IEEE Sensors Journal, 2022, 22, 14592-14600.	2.4	0