

Chengdong Wu

List of Publications by Year in descending order

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131
papers

872
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758635

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132
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132
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Application of Sparse-Channel Lidar Sensors on Viewpoint-Invariant Loop Closing Task. IEEE Sensors Journal, 2022, 22, 14592-14600.	2.4	0
4	Kalman Filter for Spatial-Temporal Regularized Correlation Filters. IEEE Transactions on Image Processing, 2021, 30, 3263-3278.	6.0	19
5	A Novel Video Transmission Optimization Mechanism Based on Reinforcement Learning and Edge Computing. Mobile Information Systems, 2021, 2021, 1-10.	0.4	2
6	Image Enhancement Algorithm of Vehicle Recognition under High Light Based on Deep Learning. , 2021, , .		0
7	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
8	Research on Image Adaptive Enhancement Algorithm under Low Light in License Plate Recognition System. Symmetry, 2020, 12, 1552.	1.1	3
9	Affine Geometrical Region CNN for Object Tracking. IEEE Access, 2020, 8, 68638-68648.	2.6	5
10	Convolutional Features Combining SL(3) Group for Visual Tracking. IEEE Access, 2020, 8, 61096-61106.	2.6	1
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 Segmentation Based on Modified Local Image Fitting Model with Shape Prior Information. Journal of Healthcare Engineering, 2019, 2019, 1-10.	1.1	10
13	Robust Object Tracking Using Affine Transformation and Convolutional Features. IEEE Access, 2019, 7, 182489-182498.	2.6	0
14	AFM Nanomanipulation with Tip Morphology Estimation and Positioning Compensation. , 2019, , .		0
15	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
16	Collaboration calibration and three-dimensional localization in multi-view system. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881377.	1.3	2
17	Multi-class Classification Method Based on Support Vector Machine with Hyper-sphere for Steel surface Defects. , 2018, , .		3
18	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

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19	Automatic Microaneurysm Detection Using the Sparse Principal Component Analysis-Based Unsupervised Classification Method. <i>IEEE Access</i> , 2017, 5, 2563-2572.	2.6	71
20	Automatic optic disc detection in retinal images via group sparse regularization extreme learning machine. , 2017, , .		2
21	WSN Deployment and Localization Using a Mobile Agent. <i>Wireless Personal Communications</i> , 2017, 97, 4921-4931.	1.8	8
22	Automatic Detection of Exudates in Digital Color Fundus Images Using Superpixel Multi-Feature Classification. <i>IEEE Access</i> , 2017, 5, 17077-17088.	2.6	54
23	Collaborative Synchronization Mechanism in Wireless Multimedia Sensor Networks. <i>Wireless Personal Communications</i> , 2017, 96, 1929-1943.	1.8	2
24	Automatic Optic Disc Boundary Extraction Based on Saliency Object Detection and Modified Local Intensity Clustering Model in Retinal Images. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017, E100.A, 2069-2072.	0.2	13
25	Automated Detection of Red Lesions Using Superpixel Multichannel Multifeature. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-13.	0.7	5
26	3D Temperature Distribution Model Based on Thermal Infrared Image. <i>Journal of Sensors</i> , 2017, 2017, 1-10.	0.6	12
27	Compound Event Barrier Coverage in Wireless Sensor Networks under Multi-Constraint Conditions. <i>Sensors</i> , 2017, 17, 25.	2.1	12
28	Shape Reconstruction Based on a New Blurring Model at the Micro/Nanometer Scale. <i>Sensors</i> , 2016, 16, 302.	2.1	2
29	The Strip Steel Surface Defect Recognition Based on Multiple Support Vector Hyper-Sphere with Feature and Sample Weights. <i>Steel Research International</i> , 2016, 87, 1678-1685.	1.0	6
30	Lung nodules classification based on growth changes and registration technology. , 2016, , .		1
31	Twin pinball loss support vector hyper-sphere classifier for pattern recognition. , 2016, , .		7
32	Passive target localization in multi-view system. , 2016, , .		1
33	Vote selection mechanisms and probabilistic data association-based mobile node localization algorithm in mixed LOS/NLOS environments. <i>Telecommunication Systems</i> , 2016, 62, 641-655.	1.6	10
34	Indoor scene segmentation with semantic cuboids. , 2015, , .		0
35	Fast depth reconstruction with a defocus model on micro scale. , 2015, , .		0
36	Online selection of discriminative features with approximated distribution fields for efficient object tracking. , 2015, , .		0

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37	The Indoor Localization and Tracking Estimation Method of Mobile Targets in Three-Dimensional Wireless Sensor Networks. <i>Sensors</i> , 2015, 15, 29661-29684.	2.1	10
38	Conjugate gradient algorithm for efficient covariance tracking with Jensen-Bregman LogDet metric. <i>IET Computer Vision</i> , 2015, 9, 814-820.	1.3	2
39	Hybrid filter localization algorithm based on the selection mechanism. , 2015, , .		2
40	Indoor Robot Localization Based on Multidimensional Scaling. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 719658.	1.3	6
41	High Yield Assembly of Cu/CuO Nanowires Device. <i>Integrated Ferroelectrics</i> , 2014, 154, 20-27.	0.3	0
42	A Novel Mobile Localization Method for Distributed Sensor Network with Non-Line-of-Sight Error Mitigation. <i>International Journal of Distributed Sensor Networks</i> , 2014, 10, 154896.	1.3	2
43	Rotation and affine-invariant SIFT descriptor for matching UAV images with satellite images. , 2014, , .		7
44	Active tension optimal control for WT wheelchair robot by using a novel control law for holonomic or nonholonomic systems. <i>Science China Information Sciences</i> , 2014, 57, 1-15.	2.7	1
45	Application of wireless sensor network in the monitoring system of boiler. , 2014, , .		0
46	Indoor Localization Algorithm for TDOA Measurement in NLOS Environments. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2014, E97.A, 1149-1152.	0.2	9
47	Study on the large-scale assembly and fabrication method for SWCNTs nano device. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 556-561.	2.0	8
48	Modeling of nano piezoelectric actuator based on block matching algorithm with optimal block size. <i>Science China Technological Sciences</i> , 2013, 56, 2649-2657.	2.0	4
49	AFM-Based Robotic Nano-Hand for Stable Manipulation at Nanoscale. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013, 10, 285-295.	3.4	46
50	A Novel NLOS Localization Method Based on Tabu Search. , 2013, , .		1
51	Modeling of nano piezoelectric actuator based on block matching algorithm with optimal block size. , 2013, , .		0
52	Three-dimensional localisation for wireless sensor networks using probabilistic fuzzy logic. , 2013, , .		0
53	A rescue-assist wireless sensor networks for large building. , 2013, , .		4
54	Fabrication of single-walled carbon nanotube-based highly sensitive gas sensors. <i>Science China Technological Sciences</i> , 2013, 56, 32-35.	2.0	18

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55	The deployment algorithm of heterogeneous wireless sensor networks based on energy-balance. , 2013, , .		3
56	Indoor Mobile Localization in Wireless Sensor Network under Unknown NLOS Errors. International Journal of Distributed Sensor Networks, 2013, 9, 208904.	1.3	17
57	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
58	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
59	Localization in Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2013, 9, 457874.	1.3	2
60	A Survey of Localization in Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2012, 8, 962523.	1.3	190
61	EEG based automatic left-right hand movement classification. , 2012, , .		5
62	Multiple-source localization in binary sensor networks. , 2012, , .		2
63	Study on the optimal passive creeping control of the snake-like robot. , 2012, , .		1
64	Large-scale assembly of single-walled carbon nanotube field effect transistor. , 2012, , .		0
65	Study on the continuous direction control for the snake-like robot. , 2012, , .		0
66	Global Shape Reconstruction of the Bended AFM Cantilever. IEEE Nanotechnology Magazine, 2012, 11, 713-719.	1.1	9
67	Robot assisted maintenance strategy in wireless sensor networks. , 2012, , .		4
68	A New Digital Image Restoration Model Based on Local Constraints. , 2012, , .		1
69	Single-Walled Carbon Nanotube-Based Gas Sensors for NO2 Detection. Integrated Ferroelectrics, 2012, 135, 132-137.	0.3	8
70	A novel image smoothing model based on orientation information measure. , 2012, , .		0
71	A Robust Monte Carlo Tracking Algorithm Based on Feature Adaptive Selection. , 2012, , .		0
72	Classification of multi-channels SEMG signals using wavelet and neural networks on assistive robot. , 2012, , .		7

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73	A potential function and artificial neural network for path planning in dynamic environments based on self-reconfigurable mobile robot system. , 2012, , .		2
74	A Data/Image Transmission Device Based on TCP/IP Protocol. , 2012, , .		2
75	Robust object tracking with multiple basic mean shift tracker. , 2012, , .		1
76	Node Redeployment for Effective Prolong Maintenance Period in Wireless Sensor Networks. IEICE Transactions on Communications, 2012, E95.B, 3179-3186.	0.4	3
77	A time-dependent anisotropic diffusion image smoothing method. , 2011, , .		4
78	An Automatic Surface Elasticity Measurement and Error Compensation Method Based on Contact Mode AFM. IEEE Nanotechnology Magazine, 2011, 10, 1306-1313.	1.1	3
79	A noble target tracking algorithm based on dynamic clustering for wireless sensor network. , 2011, , .		1
80	Study of gait symmetry quantification and its application to intelligent prosthetic leg development. , 2011, , .		1
81	Global shape reconstruction of nano grid with singly fixed camera. Science China Technological Sciences, 2011, 54, 1044-1052.	2.0	4
82	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
83	RBF Optimization control based on PSO for elevator group system. , 2011, , .		0
84	Design of Point to Multi-Point Wireless Communication System Based on ZigBee. , 2011, , .		1
85	A Hidden Markov Model method for traffic incident detection using multiple features. , 2011, , .		0
86	Pavement image denoising based on shearlet transform. , 2011, , .		1
87	An improved DV-Hop localization algorithm. , 2010, , .		4
88	A noble data aggregation algorithm for low latency in wireless sensor network. , 2010, , .		5
89	Bilayer-based data aggregation algorithm for low latency in wireless sensor networks. , 2010, , .		0
90	Localization Algorithm Based on RSSI and Distance Geometry Constrains for Wireless Sensor Network. , 2010, , .		11

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91	Dynamic hand gesture recognition using motion trajectories and key frames. , 2010, , .		16
92	A height error compensation method based on contact mode AFM. , 2010, , .		0
93	An embedded wireless transmission system based on the extended user datagram protocol (EUDP). , 2010, , .		1
94	Study of intelligent video monitoring technology. , 2010, , .		2
95	Design of node in wireless sensor network. , 2010, , .		1
96	Design of elevator audio player controlled by wireless communication. , 2010, , .		1
97	Shape-shifting robot path planning method based on reconfiguration performance. , 2010, , .		0
98	Modeling and analyzing nano-particle pushing with an AFM by using nano-hand strategy. , 2010, , .		4
99	Research on the control station system for a shape-shifting search and rescue robot. , 2010, , .		0
100	A path planning method for a shape-shifting robot. , 2010, , .		0
101	Notice of Retraction: Improve the Science and Engineering Students' Creative Ability Through Research Project. , 2010, , .		1
102	A new model of visual attention selection based on Amplitude Modulation Fourier Transform. , 2009, , .		1
103	Innovation Quality Cultivation of College Students by Scientific Contest. , 2009, , .		2
104	A hybrid actuation scheme of trans-femoral prosthesis for motion adaptation. , 2009, , .		1
105	Cooperative hunting of multiple mobile robots under unknown dynamic environment. , 2009, , .		3
106	A new algorithm for multiple-source localization based On acoustic energy in wireless sensor networks. , 2009, , .		4
107	Research of nodes deployment for wireless sensor network in deterministic area. , 2009, , .		3
108	Recognition of dynamic hand gesture based on SCHMM model. , 2009, , .		2

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109	Global depth from defocus with fixed camera parameters. , 2009, , .		4
110	The Task Assignment Solution for Multi-Target Pursuit Problem. , 2009, , .		1
111	Hand extraction using geometric moments based on active skin color model. , 2009, , .		4
112	Analysis, comparison and improvement of block matching based sub-pixel motion measurement methods for image sequences. , 2009, , .		1
113	Research of Portable Information Terminal Based on MIPS Processor and Windows CE. , 2009, , .		1
114	Scene classification based on gray level-gradient co-occurrence matrix in the neighborhood of interest points. , 2009, , .		7
115	A communication quality improved routing protocol for wireless sensor network. , 2009, , .		1
116	Research of Intelligent Home Security Surveillance System Based on ZigBee. , 2008, , .		53
117	Energy-based sensor network multiple-source localization via a new EM algorithm. , 2008, , .		3
118	Gait pattern estimation for intelligent bionic leg. , 2008, , .		2
119	Multi-resolution optical flow tracking algorithm based on multi-scale Harris corner points feature. , 2008, , .		6
120	An improved two-stage camera calibration method based on evolution calculation. , 2008, , .		1
121	Research on Robotic Popular Science System Based on LEGO Bricks. , 2008, , .		1
122	Distributed energy-based multi-source localization in wireless sensor network. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1
123	Design of Control System for Mobile Robot Based on DSP Processor. , 2008, , .		1
124	A Novel Approach to 2-D Shape Representation Based on Equilateral Polygonal Approximation. , 2008, , .		4
125	Study on key technology of metallographical image processing and recognition. , 2008, , .		1
126	A review of Traffic Visual Tracking technology. , 2008, , .		5

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127	The Exploration and Practice of Talents Foster Mode about Information Science in Country-Oriented Information-Based Strategy. , 2008, , .		0
128	Motion vehicle tracking based on multi-resolution optical flow and multi-scale Harris corner detection. , 2007, , .		6
129	An Improved Two-Stage Camera Calibration Method. , 2006, , .		5
130	The Application of Distributed Neural Network Fault Diagnosis Technique in Process Control. , 2006, , .		1
131	3D Reconstruction Based on a Fast Area-based Stereo Matching Algorithm. , 2006, , .		0