

Nanning Zheng

List of Publications by Year in descending order

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449
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449
docs citations

449
times ranked

11334
citing authors

#	ARTICLE	IF	CITATIONS
1	ECCA: Efficient Correntropy-Based Clustering Algorithm With Orthogonal Concept Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7377-7390.	7.2	8
2	Onboard Sensors-Based Self-Localization for Autonomous Vehicle With Hierarchical Map. IEEE Transactions on Cybernetics, 2023, 53, 4218-4231.	6.2	4
3	LiVLR: A Lightweight Visual-Linguistic Reasoning Framework for Video Question Answering. IEEE Transactions on Multimedia, 2023, 25, 5002-5013.	5.2	4
4	Adaptive Two-Stream Consensus Network for Weakly-Supervised Temporal Action Localization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 4136-4151.	9.7	3
5	Group Sampling for Scale Invariant Face Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 985-1001.	9.7	10
6	A Flexible and Explainable Vehicle Motion Prediction and Inference Framework Combining Semi-Supervised AOG and ST-LSTM. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 840-860.	4.7	17
7	Action Coherence Network for Weakly-Supervised Temporal Action Localization. IEEE Transactions on Multimedia, 2022, 24, 1857-1870.	5.2	10
8	Neighborhood Geometric Structure-Preserving Variational Autoencoder for Smooth and Bounded Data Sources. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3598-3611.	7.2	3
9	Three Principles to Determine the Right-of-Way for AVs: Safe Interaction With Humans. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7759-7774.	4.7	16
10	Multinetwork Collaborative Feature Learning for Semisupervised Person Reidentification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4826-4839.	7.2	7
11	Feature-Specific Denoising of Neural Activity for Natural Image Identification. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 629-638.	2.6	1
12	Conditional Uncorrelation and Efficient Subset Selection in Sparse Regression. IEEE Transactions on Cybernetics, 2022, 52, 10458-10467.	6.2	13
13	Adaptive Disparity Candidates Prediction Network for Efficient Real-Time Stereo Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3099-3110.	5.6	16
14	From Human Driving to Automated Driving: What Do We Know About Drivers?. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6189-6205.	4.7	8
15	Perturbation of Spike Timing Benefits Neural Network Performance on Similarity Search. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4361-4372.	7.2	3
16	Hierarchical Motion Planning for Autonomous Driving in Large-Scale Complex Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13291-13305.	4.7	4
17	Loss functions for pose guided person image generation. Pattern Recognition, 2022, 122, 108351.	5.1	9
18	Multi-Model-Based Local Path Planning Methodology for Autonomous Driving: An Integrated Framework. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4187-4200.	4.7	17

#	ARTICLE	IF	CITATIONS
19	CMD: controllable matrix decomposition with global optimization for deep neural network compression. Machine Learning, 2022, 111, 831-851.	3.4	5
20	SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14859-14874.	4.7	3
21	Parallel Vision for Long-Tail Regularization: Initial Results From IVFC Autonomous Driving Testing. IEEE Transactions on Intelligent Vehicles, 2022, 7, 286-299.	9.4	50
22	REGRAD: A Large-Scale Relational Grasp Dataset for Safe and Object-Specific Robotic Grasping in Clutter. IEEE Robotics and Automation Letters, 2022, 7, 2929-2936.	3.3	16
23	TCL: Tightly Coupled Learning Strategy for Weakly Supervised Hierarchical Place Recognition. IEEE Robotics and Automation Letters, 2022, 7, 2684-2691.	3.3	4
24	With or without human interference for precise age estimation based on machine learning?. International Journal of Legal Medicine, 2022, 136, 821-831.	1.2	12
25	EvoSTGAT: Evolving spatiotemporal graph attention networks for pedestrian trajectory prediction. Neurocomputing, 2022, 491, 333-342.	3.5	16
26	Improved drug-target interaction prediction with intermolecular graph transformer. Briefings in Bioinformatics, 2022, 23, .	3.2	4
27	FCHP: Exploring the Discriminative Feature and Feature Correlation of Feature Maps for Hierarchical DNN Pruning and Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6807-6820.	5.6	8
28	Hierarchical Causality Network: Find the Effective Connectivity in Visual Cortex. IFIP Advances in Information and Communication Technology, 2022, , 407-419.	0.5	1
29	Parametric Path Optimization for Wheeled Robots Navigation. , 2022, , .		1
30	Minimum Error Entropy Kalman Filter. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5819-5829.	5.9	97
31	A Theoretical Foundation of Intelligence Testing and Its Application for Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6297-6306.	4.7	35
32	An Encoding Framework With Brain Inner State for Natural Image Identification. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 453-464.	2.6	0
33	A Real-Time Robotic Grasping Approach With Oriented Anchor Box. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3014-3025.	5.9	31
34	Lane Shared Bit-Pragmatic Deep Neural Network Computing Architecture and Circuit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 486-490.	2.2	0
35	Associations between MSE and SSIM as cost functions in linear decomposition with application to bit allocation for sparse coding. Neurocomputing, 2021, 422, 139-149.	3.5	17
36	Correntropy-Based Multiview Subspace Clustering. IEEE Transactions on Cybernetics, 2021, 51, 3298-3311.	6.2	15

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37	Predicting Task-Driven Attention via Integrating Bottom-Up Stimulus and Top-Down Guidance. IEEE Transactions on Image Processing, 2021, 30, 8293-8305.	6.0	5
38	Weakly Supervised Temporal Action Localization through Contrast based Evaluation Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	3
39	Tracking Beyond Detection: Learning a Global Response Map for End-to-End Multi-Object Tracking. IEEE Transactions on Image Processing, 2021, 30, 8222-8235.	6.0	7
40	China's 12-Year Quest of Autonomous Vehicular Intelligence: The Intelligent Vehicles Future Challenge Program. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 6-19.	2.6	18
41	Giant Panda Identification. IEEE Transactions on Image Processing, 2021, 30, 2837-2849.	6.0	11
42	Inferring Tasks and Fluents in Videos by Learning Causal Relations. , 2021, , .		1
43	Graph-based temporal action co-localization from an untrimmed video. Neurocomputing, 2021, 434, 211-223.	3.5	5
44	Predicting short-term next-active-object through visual attention and hand position. Neurocomputing, 2021, 433, 212-222.	3.5	6
45	Efficient Repair Analysis Algorithm Exploration for Memory With Redundancy and In-Memory ECC. IEEE Transactions on Computers, 2021, 70, 775-788.	2.4	6
46	A multilevel fusion network for 3D object detection. Neurocomputing, 2021, 437, 107-117.	3.5	4
47	A multi-cue guidance network for depth completion. Neurocomputing, 2021, 441, 291-299.	3.5	4
48	Societal Intelligence for Safer and Smarter Transportation. IEEE Internet of Things Journal, 2021, 8, 9109-9121.	5.5	9
49	PIT: Processing-In-Transmission With Fine-Grained Data Manipulation Networks. IEEE Transactions on Computers, 2021, 70, 877-891.	2.4	1
50	CAQ: Context-Aware Quantization via Reinforcement Learning. , 2021, , .		1
51	Joint Critics Mechanism: A Universal Framework for Multi-targets Visual Navigation. , 2021, , .		0
52	Exploring Effective DNN Models for Forensic Age Estimation based on Panoramic Radiograph Images. , 2021, , .		7
53	Dynamic Dataflow Scheduling and Computation Mapping Techniques for Efficient Depthwise Separable Convolution Acceleration. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3279-3292.	3.5	19
54	HSC: Leveraging horizontal shortcut connections for improving accuracy and computational efficiency of lightweight CNN. Neurocomputing, 2021, 457, 141-154.	3.5	9

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55	Nesting spatiotemporal attention networks for action recognition. <i>Neurocomputing</i> , 2021, 459, 338-348.	3.5	9
56	A joint object detection and semantic segmentation model with cross-attention and inner-attention mechanisms. <i>Neurocomputing</i> , 2021, 463, 212-225.	3.5	13
57	A Global-Local Coupling Two-Stage Path Planning Method for Mobile Robots. <i>IEEE Robotics and Automation Letters</i> , 2021, 6, 5349-5356.	3.3	29
58	REGNet: REgion-based Grasp Network for End-to-end Grasp Detection in Point Clouds. , 2021, , .		29
59	Probabilistic Human Motion Prediction via A Bayesian Neural Network. , 2021, , .		4
60	Pose Correction of Autonomous Vehicles with Edge Computing. , 2021, , .		0
61	An Integrated Localization System with Fault Detection, Isolation and Recovery for Autonomous Vehicles. , 2021, , .		1
62	A Dual Closed-loop Longitudinal Speed Controller Using Smooth Feedforward and Fuzzy Logic for Autonomous Driving Vehicles. , 2021, , .		4
63	Obstacle-Centered Trajectory Planning for Autonomous Mobile Robot. , 2021, , .		1
64	End-to-End Object Detection with Fully Convolutional Network. , 2021, , .		99
65	MPR-Net: Multi-Scale Key Points Regression for Lane Detection. , 2021, , .		0
66	SpV8: Pursuing Optimal Vectorization and Regular Computation Pattern in SpMV. , 2021, , .		7
67	Trajectory Planning with Comfort and Safety in Dynamic Traffic Scenarios for Autonomous Driving. , 2021, , .		3
68	An Interactive Three-Dimensional Motion Simulation Method for Indoor Multi-Agent. , 2021, , .		0
69	Multi-AGV pathfinding for automatic warehouse applications. , 2021, , .		1
70	Direction-of-Arrival and Range Estimation of Near-Field Sources Based on Subspace Fitting. , 2021, , .		1
71	Bupleurum Seeds Recognition with Attention Mechanism. , 2021, , .		0
72	Rheumatoid Arthritis Detection method based on Mask R-CNN. , 2021, , .		0

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73	Estimating Correlation Between Brain Consciousness and Depth of Anesthesia Based on EEG. , 2021, , .		0
74	Multi-level Spatio-temporal Matching Network for Multi-turn Response Selection in Retrieval-based Dialogue Systems. , 2021, , .		0
75	A 4K\$imes\$ 2K@60fps Multifunctional Video Display Processor for High Perceptual Image Quality. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 451-463.	3.5	4
76	Algorithm and VLSI Architecture Co-Design on Efficient Semi-Global Stereo Matching. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4390-4403.	5.6	16
77	Spatiotemporal neural networks for action recognition based on joint loss. Neural Computing and Applications, 2020, 32, 4293-4302.	3.2	22
78	Visual manipulation relationship recognition in object-stacking scenes. Pattern Recognition Letters, 2020, 140, 34-42.	2.6	12
79	Robust Sparse Channel Estimation Based on Maximum Mixture Correntropy Criterion. , 2020, , .		4
80	Subspace-Based Near-Field Source Localization in Unknown Spatially Nonuniform Noise Environment. IEEE Transactions on Signal Processing, 2020, 68, 4713-4726.	3.2	12
81	Robust and precise isotropic scaling registration algorithm using bi-directional distance and correntropy. Pattern Recognition Letters, 2020, 138, 298-304.	2.6	2
82	Gridless Sparsity-Based Localization for Near-Field Sources with Symmetric Linear Array. , 2020, , .		1
83	Weakly Supervised Vulnerable Plaques Detection by IVOCT Image. , 2020, , .		4
84	A Deep Model for Joint Object Detection and Semantic Segmentation in Traffic Scenes. , 2020, , .		9
85	Predicting COVID-19 in China Using Hybrid AI Model. IEEE Transactions on Cybernetics, 2020, 50, 2891-2904.	6.2	208
86	Exploiting Variable Precision Computation Array for Scalable Neural Network Accelerators. , 2020, , .		0
87	Augmented Space Linear Models. IEEE Transactions on Signal Processing, 2020, 68, 2724-2738.	3.2	4
88	Learning to infer human attention in daily activities. Pattern Recognition, 2020, 103, 107314.	5.1	12
89	Traffic Agent Trajectory Prediction Using Social Convolution and Attention Mechanism. , 2020, , .		10
90	EMG-Based Gestures Classification Using a Mixed-Signal Neuromorphic Processing System. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 578-587.	2.7	24

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91	A Boundary Based Out-of-Distribution Classifier for Generalized Zero-Shot Learning. Lecture Notes in Computer Science, 2020, , 572-588.	1.0	28
92	Social-aware Pedestrian Trajectory Prediction via States Refinement LSTM. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	16
93	Designing Efficient Shortcut Architecture for Improving the Accuracy of Fully Quantized Neural Networks Accelerator. , 2020, , .		2
94	Using Detection, Tracking and Prediction in Visual SLAM to Achieve Real-time Semantic Mapping of Dynamic Scenarios. , 2020, , .		2
95	Mixed Test Environment-based Vehicle-in-the-loop Validation - A New Testing Approach for Autonomous Vehicles. , 2020, , .		18
96	MuRF-Net: Multi-Receptive Field Pillars for 3D Object Detection from Point Cloud. , 2020, , .		1
97	CoBigICP: Robust and Precise Point Set Registration using Correntropy Metrics and Bidirectional Correspondence. , 2020, , .		6
98	A Driving Behavior Recognition Model with Bi-LSTM and Multi-Scale CNN. , 2020, , .		11
99	Detection of Carotid Arteries in Magnetic Resonance Imaging Based on Deep Learning. , 2020, , .		1
100	Sparse Bayesian Learning for Near-Field Narrowband Source Localization. , 2020, , .		1
101	A Novel Brain Decoding Method: A Correlation Network Framework for Revealing Brain Connections. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 95-106.	2.6	11
102	Fine-Grained Image Classification Using Modified DCNNs Trained by Cascaded Softmax and Generalized Large-Margin Losses. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 683-694.	7.2	42
103	Architectural Exploration to Address the Reliability Challenges for ReRAM-Based Buffer in SSD. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 226-238.	3.5	5
104	A Novel Integrated Simulation and Testing Platform for Self-Driving Cars With Hardware in the Loop. IEEE Transactions on Intelligent Vehicles, 2019, 4, 425-436.	9.4	62
105	Autonomous driving: cognitive construction and situation understanding. Science China Information Sciences, 2019, 62, 1.	2.7	50
106	Deep morphology aided diagnosis network for segmentation of carotid artery vessel wall and diagnosis of carotid atherosclerosis on blackâ€œblood vessel wall MRI. Medical Physics, 2019, 46, 5544-5561.	1.6	31
107	Efficient Compression-Based Line Buffer Design for Image/Video Processing Circuits. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 2423-2433.	2.1	11
108	REcache: Efficient Sustainable Energy Management Circuits and Policies for Computing Systems. , 2019, , .		1

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109	Robust Extrinsic Parameter Calibration of 3D LIDAR Using Lie Algebras. , 2019, , .		1
110	High-Definition Map Combined Local Motion Planning and Obstacle Avoidance for Autonomous Driving. , 2019, , .		16
111	View Adaptive Neural Networks for High Performance Skeleton-Based Human Action Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1963-1978.	9.7	308
112	Functional Source Separation for EEG-fMRI Fusion: Application to Steady-State Visual Evoked Potentials. Frontiers in Neuroinformatics, 2019, 13, 24.	1.6	11
113	Exploring Brain Effective Connectivity in Visual Perception Using a Hierarchical Correlation Network. IFIP Advances in Information and Communication Technology, 2019, , 223-235.	0.5	3
114	Parallel testing of vehicle intelligence via virtual-real interaction. Science Robotics, 2019, 4, .	9.9	150
115	Joint Task Difficulties Estimation and Testees Ranking for Intelligence Evaluation. IEEE Transactions on Computational Social Systems, 2019, 6, 221-226.	3.2	9
116	Correntropy based scale ICP algorithm for robust point set registration. Pattern Recognition, 2019, 93, 14-24.	5.1	54
117	Learning Composite Latent Structures for 3D Human Action Representation and Recognition. IEEE Transactions on Multimedia, 2019, 21, 2195-2208.	5.2	33
118	Cross-View Person Identification Based on Confidence-Weighted Human Pose Matching. IEEE Transactions on Image Processing, 2019, 28, 3821-3835.	6.0	10
119	Subspace-Based Algorithms for Localization and Tracking of Multiple Near-Field Sources. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 156-171.	7.3	22
120	Guest Editorial Special Issue on IoT on the Move: Enabling Technologies and Driving Applications for Internet of Intelligent Vehicles (IoIV). IEEE Internet of Things Journal, 2019, 6, 1-5.	5.5	31
121	Task-oriented Grasping in Object Stacking Scenes with CRF-based Semantic Model. , 2019, , .		12
122	ROI-based Robotic Grasp Detection for Object Overlapping Scenes. , 2019, , .		84
123	Scene-Guided Region Proposal Re-ranking Method for On-road Vehicle Candidate Generation. , 2019, , .		1
124	EAN: Error Attenuation Network for Long-term Human Motion Prediction. , 2019, , .		2
125	Deep Learning Based Localization of Near-Field Sources with Exact Spherical Wavefront Model. , 2019, , .		14
126	A Multi-task Convolutional Neural Network for Autonomous Robotic Grasping in Object Stacking Scenes. , 2019, , .		31

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127	SR-LSTM: State Refinement for LSTM Towards Pedestrian Trajectory Prediction. , 2019, , .		297
128	Weakly Supervised Temporal Action Localization Through Contrast Based Evaluation Networks. , 2019, , .		75
129	Video Imprint Segmentation for Temporal Action Detection in Untrimmed Videos. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8328-8335.	3.6	16
130	OBB-based 4D Manipulation of Traffic Sensory Data for Generating Corner Driving Scenarios. , 2019, , .		3
131	Compressing Unknown Images With Product Quantizer for Efficient Zero-Shot Classification. , 2019, , .		24
132	Preference Relationship-Based CrossCMN Scheme for Answer Ranking in Community QA. , 2019, , .		1
133	A correntropy-based affine iterative closest point algorithm for robust point set registration. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 981-991.	8.5	23
134	Subspace-Based Method for Direction Estimation of Coherent Signals with Arbitrary Linear Array. , 2019, , .		0
135	Visual-Based Semantic SLAM with Landmarks for Large-Scale Outdoor Environment. , 2019, , .		17
136	A Non-Iterative Method for Localization of Mixed Far-Field and Near-Field Narrowband Sources with Symmetric Uniform Linear Array. , 2019, , .		2
137	Hybrid A-based Curvature Continuous Path Planning in Complex Dynamic Environments. , 2019, , .		13
138	Crossing-Road Pedestrian Trajectory Prediction via Encoder-Decoder LSTM. , 2019, , .		15
139	Localization of Near-Field Sources Based on Linear Prediction and Oblique Projection Operator. IEEE Transactions on Signal Processing, 2019, 67, 415-430.	3.2	39
140	On the Crossroad of Artificial Intelligence: A Revisit to Alan Turing and Norbert Wiener. IEEE Transactions on Cybernetics, 2019, 49, 3618-3626.	6.2	20
141	Semi-supervised person re-identification using multi-view clustering. Pattern Recognition, 2019, 88, 285-297.	5.1	77
142	Design Space Exploration of Neural Network Activation Function Circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1974-1978.	1.9	44
143	Artificial intelligence test: a case study of intelligent vehicles. Artificial Intelligence Review, 2018, 50, 441-465.	9.7	102
144	Accelerate GPU Concurrent Kernel Execution by Mitigating Memory Pipeline Stalls. , 2018, , .		27

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145	Cross multivariate correlation coefficients as screening tool for analysis of concurrent EEG&fMRI recordings. Journal of Neuroscience Research, 2018, 96, 1159-1175.	1.3	6
146	Tri-Co Robot: a Chinese robotic research initiative for enhanced robot interaction capabilities. National Science Review, 2018, 5, 799-801.	4.6	69
147	Data-Driven State-Increment Statistical Model and Its Application in Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3872-3882.	4.7	9
148	Entropy and orthogonality based deep discriminative feature learning for object recognition. Pattern Recognition, 2018, 81, 71-80.	5.1	15
149	A novel spiking neural network of receptive field encoding with groups of neurons decision. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 139-150.	1.5	7
150	A Limb-Based Graphical Model for Human Pose Estimation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1080-1092.	5.9	24
151	Hierarchical and Parallel Pipelined Heterogeneous SoC for Embedded Vision Processing. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1434-1444.	5.6	8
152	Automatic salient object sequence rebuilding for video segment analysis. Science China Information Sciences, 2018, 61, 1.	2.7	7
153	Deep self-paced learning for person re-identification. Pattern Recognition, 2018, 76, 739-751.	5.1	57
154	Reconstruction of Visual Image From Functional Magnetic Resonance Imaging Using Spiking Neuron Model. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 624-636.	2.6	4
155	Localization of Near-Field Signals Based on Linear Prediction and Oblique Projection Operator. , 2018, , .		2
156	Kernelized Subspace Pooling for Deep Local Descriptors. , 2018, , .		27
157	Architecture and Factor Design of Fully Convolutional Neural Networks for Retinal Vessel Segmentation. , 2018, , .		4
158	Visual Manipulation Relationship Detection with Fully Connected CRFs for Autonomous Robotic Grasp. , 2018, , .		3
159	Spiking Locality-Sensitive Hash: Spiking Computation with Phase Encoding Method. , 2018, , .		2
160	Visual Manipulation Relationship Network for Autonomous Robotics. , 2018, , .		34
161	AFFINE LBG FOR CODEBOOK TRAINING OF UNIVARIATE LINEAR REPRESENTATION. , 2018, , .		1
162	New Subspace-Based Method for Localization of Multiple Near-Field Signals and Statistical Analysis. , 2018, , .		2

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163	Where and Why are They Looking? Jointly Inferring Human Attention and Intentions in Complex Tasks. , 2018, , .		39
164	Efficient Rectangle Fitting of Sparse Laser Data for Robust On-Road Object Detection. , 2018, , .		3
165	Exploring the Potential of Using Semantic Context and Common Sense in On-Road Vehicle Detection. , 2018, , .		1
166	Line Feature Based Extrinsic Calibration of LiDAR and Camera. , 2018, , .		21
167	Exploring Highly Dependable and Efficient Datacenter Power System Using Hybrid and Hierarchical Energy Buffers. IEEE Transactions on Sustainable Computing, 2018, , 1-1.	2.2	2
168	Human-Like Maneuver Decision Using LSTM-CRF Model for On-Road Self-Driving. , 2018, , .		17
169	Autonomous Vehicle Testing and Validation Platform: Integrated Simulation System with Hardware in the Loop. , 2018, , .		38
170	Augmented Space Linear Model. , 2018, , .		1
171	A Novel Approach for Detecting Road Based on Two-Stream Fusion Fully Convolutional Network. , 2018, , .		14
172	Leveraging Spatio-Temporal Evidence and Independent Vision Channel to Improve Multi-Sensor Fusion for Vehicle Environmental Perception. , 2018, , .		12
173	Subspace-Based Localization of Near-Field Signals in Unknown Nonuniform Noise. , 2018, , .		2
174	Exploring Customizable Heterogeneous Power Distribution and Management for Datacenter. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2798-2813.	4.0	6
175	Joint Video Object Discovery and Segmentation by Coupled Dynamic Markov Networks. IEEE Transactions on Image Processing, 2018, 27, 5840-5853.	6.0	14
176	A Co-Point Mapping-Based Approach to Drivable Area Detection for Self-Driving Cars. Engineering, 2018, 4, 479-490.	3.2	14
177	Subspace-Based Localization of Far-Field and Near-Field Signals Without Eigendecomposition. IEEE Transactions on Signal Processing, 2018, 66, 4461-4476.	3.2	65
178	Segment-Tube: Spatio-Temporal Action Localization in Untrimmed Videos with Per-Frame Segmentation. Sensors, 2018, 18, 1657.	2.1	8
179	Action Recognition by an Attention-Aware Temporal Weighted Convolutional Neural Network. Sensors, 2018, 18, 1979.	2.1	33
180	Deep feature learning via structured graph Laplacian embedding for person re-identification. Pattern Recognition, 2018, 82, 94-104.	5.1	39

#	ARTICLE	IF	CITATIONS
181	Adding Attentiveness to the Neurons in Recurrent Neural Networks. Lecture Notes in Computer Science, 2018, , 136-152.	1.0	62
182	Compressive Sensing Depth Video Coding via Gaussian Mixture Models and Object Edges. Lecture Notes in Computer Science, 2018, , 96-104.	1.0	0
183	Modeling 4D Human-Object Interactions for Joint Event Segmentation, Recognition, and Object Localization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1165-1179.	9.7	49
184	Multi-Timescale Collaborative Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 141-155.	9.7	7
185	Part-aware trajectories association across non-overlapping uncalibrated cameras. Neurocomputing, 2017, 230, 30-39.	3.5	12
186	A vision-centered multi-sensor fusing approach to self-localization and obstacle perception for robotic cars. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 122-138.	1.5	48
187	Hybrid-augmented intelligence: collaboration and cognition. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 153-179.	1.5	205
188	Kernel Risk-Sensitive Loss: Definition, Properties and Application to Robust Adaptive Filtering. IEEE Transactions on Signal Processing, 2017, 65, 2888-2901.	3.2	130
189	Exemplar-Guided Similarity Learning on Polynomial Kernel Feature Map for Person Re-identification. International Journal of Computer Vision, 2017, 123, 392-414.	10.9	13
190	Pose-and-illumination-invariant face representation via a triplet-loss trained deep reconstruction model. Multimedia Tools and Applications, 2017, 76, 22043-22058.	2.6	13
191	Improving CNN Performance Accuracies With Min-Max Objective. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-14.	7.2	23
192	Managing Battery Aging for High Energy Availability in Green Datacenters. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3521-3536.	4.0	19
193	Training DCNN by Combining Max-Margin, Max-Correlation Objectives, and Correntropy Loss for Multilabel Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-13.	7.2	17
194	Knowledge Engineering With Big Data (BigKE): A 54-Month, 45-Million RMB, 15-Institution National Grand Project. IEEE Access, 2017, 5, 12696-12701.	2.6	12
195	A new compressive sensing video coding framework based on Gaussian mixture model. Signal Processing: Image Communication, 2017, 55, 66-79.	1.8	3
196	A 0.131¼m 64Mb HfO<inf>x</inf> ReRAM using configurable ramped voltage write and low read-disturb sensing techniques for reliability improvement. , 2017, , .		1
197	Parallel vision for perception and understanding of complex scenes: methods, framework, and perspectives. Artificial Intelligence Review, 2017, 48, 299-329.	9.7	104
198	Parallel learning: a perspective and a framework. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 389-395.	8.5	128

#	ARTICLE	IF	CITATIONS
199	Correntropy Maximization via ADMM: Application to Robust Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4944-4955.	2.7	22
200	A Novel Method of Minimizing View Synthesis Distortion Based on Its Non-Monotonicity in 3D Video. IEEE Transactions on Image Processing, 2017, 26, 5122-5137.	6.0	7
201	Fast additive quantization for vector compression in nearest neighbor search. Multimedia Tools and Applications, 2017, 76, 23273-23289.	2.6	3
202	Constructing Deep Sparse Coding Network for image classification. Pattern Recognition, 2017, 64, 130-140.	5.1	63
203	Active Rectification of Curved Document Images Using Structured Beams. International Journal of Computer Vision, 2017, 122, 34-60.	10.9	4
204	Iteratively multiple projections optimization for product quantization in nearest neighbor search. , 2017, , .		0
205	Cognitive map-based model: Toward a developmental framework for self-driving cars. , 2017, , .		7
206	ER3: A Unified Framework for Event Retrieval, Recognition and Recounting. , 2017, , .		19
207	Point to Set Similarity Based Deep Feature Learning for Person Re-Identification. , 2017, , .		86
208	Parallel driving in CPSS: a unified approach for transport automation and vehicle intelligence. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 577-587.	8.5	187
209	A rehabilitation gait training system for half lower limb disorder. , 2017, , .		1
210	Correntropy induced metric based common spatial patterns. , 2017, , .		6
211	A High Spatial Resolution Depth Sensing Method Based on Binocular Structured Light. Sensors, 2017, 17, 805.	2.1	17
212	A Denoising Method for Randomly Clustered Noise in ICCD Sensing Images Based on Hypergraph Cut and Down Sampling. Sensors, 2017, 17, 2778.	2.1	5
213	A Denoising Scheme for Randomly Clustered Noise Removal in ICCD Sensing Image. Sensors, 2017, 17, 233.	2.1	10
214	Vision-based Robotic Grasp Success Determination with Convolutional Neural Network. , 2017, , .		2
215	Efficient Lane Boundary Detection with Spatial-Temporal Knowledge Filtering. Sensors, 2016, 16, 1276.	2.1	24
216	An Accurate Non-Cooperative Method for Measuring Textureless Spherical Target Based on Calibrated Lasers. Sensors, 2016, 16, 2097.	2.1	10

#	ARTICLE	IF	CITATIONS
217	Person Re-identification by Multi-Channel Parts-Based CNN with Improved Triplet Loss Function. , 2016, , .		782
218	Towards connectivity-guaranteed power-gating large-scale on-chip networks. , 2016, , .		0
219	Human pose estimation based on human limbs. , 2016, , .		0
220	Selectively GPU Cache Bypassing for Un-Coalesced Loads. , 2016, , .		6
221	ADMM for maximum correntropy criterion. , 2016, , .		0
222	A general and practical path planning framework for autonomous vehicles. , 2016, , .		0
223	Efficient compressive sensing video compression method based on Gaussian mixture models. , 2016, , .		2
224	Kernel adaptive filtering subject to equality function constraints. , 2016, , .		0
225	Oblique Projection Based Enumeration of Mixed Noncoherent and Coherent Narrowband Signals. IEEE Transactions on Signal Processing, 2016, 64, 4282-4295.	3.2	10
226	An efficient depth image-based rendering with depth reliability maps for view synthesis. Journal of Visual Communication and Image Representation, 2016, 41, 176-184.	1.7	6
227	Frontal object perception for Intelligent Vehicles based on radar and camera fusion. , 2016, , .		25
228	Density-dependent quantized kernel least mean square. , 2016, , .		2
229	Intelligence Testing for Autonomous Vehicles: A New Approach. IEEE Transactions on Intelligent Vehicles, 2016, 1, 158-166.	9.4	181
230	Towards an Adaptive Multi-Power-Source Datacenter. , 2016, , .		7
231	A reconfigurable parallel FPGA accelerator for the adapt-then-combine diffusion LMS algorithm. , 2016, , .		0
232	On-Road Vehicle Detection and Tracking Using MMW Radar and Monovision Fusion. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2075-2084.	4.7	164
233	Three-Dimensional Traffic Scenes Simulation From Road Image Sequences. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1121-1134.	4.7	21
234	Integrated Longitudinal and Lateral Control for Kuafu-II Autonomous Vehicle. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2032-2041.	4.7	52

#	ARTICLE	IF	CITATIONS
235	Kernel least mean square with adaptive kernel size. Neurocomputing, 2016, 191, 95-106.	3.5	83
236	Generalized Correntropy for Robust Adaptive Filtering. IEEE Transactions on Signal Processing, 2016, 64, 3376-3387.	3.2	515
237	RE-UIPS: an adaptive distributed energy storage system for dynamically managing solar energy in green datacenters. Journal of Supercomputing, 2016, 72, 295-316.	2.4	25
238	Incorporating image priors with deep convolutional neural networks for image super-resolution. Neurocomputing, 2016, 194, 340-347.	3.5	65
239	Real-Time Global Localization of Robotic Cars in Lane Level via Lane Marking Detection and Shape Registration. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1039-1050.	4.7	59
240	A Deadlock-Free and Connectivity-Guaranteed Methodology for Achieving Fault-Tolerance in On-Chip Networks. IEEE Transactions on Computers, 2016, 65, 353-366.	2.4	17
241	An experimental study on the potential use of ReRAM as SSD buffer. , 2015, , .		2
242	A high-efficient floating point coprocessor for SPARC Leon2 embedded processor. , 2015, , .		1
243	Optimized truncation model for adaptive compressive sensing acquisition of images. , 2015, , .		0
244	Spatial Signature Estimation with an Uncalibrated Uniform Linear Array. Sensors, 2015, 15, 13899-13915.	2.1	4
245	Exploiting bit-depth scaling for quality-scalable energy efficient display processing. , 2015, , .		5
246	Illumination Robust Color Naming via Label Propagation. , 2015, , .		9
247	Saturation-preserving specular reflection separation. , 2015, , .		1
248	Multi-cue Normalized Non-Negative Sparse Encoder for image classification. , 2015, , .		0
249	A reconfigurable parallel FPGA accelerator for the kernel affine projection algorithm. , 2015, , .		1
250	Similarity learning on an explicit polynomial kernel feature map for person re-identification. , 2015, , .		135
251	SVM learning from imbalanced microanueyrysm candidate datasets used feature selection by gini index. , 2015, , .		5
252	Iterative polynomial-based trajectory extension for mobile robot. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
253	Iterative trajectory generation for mobile robot to pass through the waypoints. , 2015, , .		1
254	Two-Dimensional Direction Estimation for a Mixture of Noncoherent and Coherent Signals. IEEE Transactions on Signal Processing, 2015, 63, 318-333.	3.2	57
255	An online reference governor for mobile robot to reduce the occurrence of control input saturation. Advanced Robotics, 2015, 29, 671-681.	1.1	1
256	Efficient block-wise temporally consistent contour extraction in image sequences. Neurocomputing, 2015, 152, 127-138.	3.5	2
257	Efficient Sampling-Based Motion Planning for On-Road Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1961-1976.	4.7	139
258	Online Multi-Target Tracking With Unified Handling of Complex Scenarios. IEEE Transactions on Image Processing, 2015, 24, 3464-3477.	6.0	13
259	Convergence of a Fixed-Point Algorithm under Maximum Correntropy Criterion. IEEE Signal Processing Letters, 2015, 22, 1723-1727.	2.1	249
260	A 128-way FPGA platform for the acceleration of KLMS algorithm. , 2015, , .		0
261	The VLSI implementation of a high-resolution depth-sensing SoC based on active structured light. Machine Vision and Applications, 2015, 26, 533-548.	1.7	7
262	On the Case of Using Aggregated Page Programming for Future MLC NAND Flash Memory. Circuits, Systems, and Signal Processing, 2015, 34, 557-577.	1.2	0
263	Logic-DRAM Co-Design to Exploit the Efficient Repair Technique for Stacked DRAM. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1362-1371.	3.5	6
264	Logic-DRAM co-design to efficiently repair stacked DRAM with unused spares. , 2015, , .		0
265	HEB. , 2015, , .		40
266	Subspace-based two-dimensional direction estimation and tracking of multiple targets. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1386-1402.	2.6	34
267	Leveraging Heterogeneous Power for Improving Datacenter Efficiency and Resiliency. IEEE Computer Architecture Letters, 2015, 14, 41-45.	1.0	13
268	A path generation for automated vehicle based on Bezier curve and via-points. Robotics and Autonomous Systems, 2015, 74, 243-252.	3.0	50
269	A variable step-size adaptive algorithm under maximum correntropy criterion. , 2015, , .		10
270	Training more discriminative multi-class classifiers for hand detection. Pattern Recognition, 2015, 48, 785-797.	5.1	13

#	ARTICLE	IF	CITATIONS
271	Authentication and copyright protection watermarking scheme for H.264 based on visual saliency and secret sharing. <i>Multimedia Tools and Applications</i> , 2015, 74, 2991-3011.	2.6	8
272	Video object segmentation by integrating trajectories from points and regions. <i>Multimedia Tools and Applications</i> , 2015, 74, 9665-9696.	2.6	5
273	Exact solution to median surface problem using 3D graph search and application to parameter space exploration. <i>Pattern Recognition</i> , 2015, 48, 380-390.	5.1	7
274	Double layer multiple task learning for age estimation with insufficient training samples. <i>Neurocomputing</i> , 2015, 147, 380-386.	3.5	10
275	Video object segmentation with shape cue based on spatiotemporal superpixel neighbourhood. <i>IET Computer Vision</i> , 2014, 8, 16-25.	1.3	11
276	Design and implementation of driving control system for autonomous vehicle. , 2014, , .		12
277	Bionic vision inspired on-road obstacle detection and tracking using radar and visual information. , 2014, , .		26
278	Efficient Lossy Compression for Compressive Sensing Acquisition of Images in Compressive Sensing Imaging Systems. <i>Sensors</i> , 2014, 14, 23398-23418.	2.1	12
279	An Extended Result on the Optimal Estimation Under the Minimum Error Entropy Criterion. <i>Entropy</i> , 2014, 16, 2223-2233.	1.1	1
280	A Note on the W-S Lower Bound of the MEE Estimation. <i>Entropy</i> , 2014, 16, 814-824.	1.1	0
281	Salient object detection based on multi-scale superpixels and saliency propagation. <i>Electronics Letters</i> , 2014, 50, 675-677.	0.5	0
282	Iterative Pricing-Based Rate Allocation for Video Streams With Fluctuating Bandwidth Availability. <i>IEEE Transactions on Multimedia</i> , 2014, 16, 1849-1862.	5.2	9
283	Task-Specific Performance Evaluation of UGVs: Case Studies at the IVFC. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 1969-1979.	4.7	50
284	Detection of the number of noncoherent and coherent signals with a simple planar array. , 2014, , .		0
285	On-line reference governor for mobile robot with velocity feedback controller. , 2014, , .		0
286	Sparse kernel recursive least squares using L_1 regularization and a fixed-point sub-iteration. , 2014, , .		6
287	A fast RRT algorithm for motion planning of autonomous road vehicles. , 2014, , .		24
288	The 'floor-wall'; traffic scenes construction for unmanned vehicle simulation evaluation. , 2014, , .		10

#	ARTICLE	IF	CITATIONS
289	Leveraging distributed UPS energy for managing solar energy powered data centers. , 2014, , .		12
290	Design of write merging and read prefetching buffer in DRAM controller for embedded processor. Microprocessors and Microsystems, 2014, 38, 451-457.	1.8	7
291	Object segmentation and key-pose based summarization for motion video. Multimedia Tools and Applications, 2014, 72, 1773-1802.	2.6	8
292	Semantic propagation network with robust spatial context descriptors for multi-class object labeling. Neural Computing and Applications, 2014, 24, 1003-1018.	3.2	3
293	A new implementation of image-processing engine for 3D visualization and stereo video stream display. Science Bulletin, 2014, 59, 459-467.	1.7	2
294	Steady-State Mean-Square Error Analysis for Adaptive Filtering under the Maximum Correntropy Criterion. IEEE Signal Processing Letters, 2014, 21, 880-884.	2.1	354
295	Learning group-based dictionaries for discriminative image representation. Pattern Recognition, 2014, 47, 899-913.	5.1	18
296	Special issue on big data research in China. Knowledge and Information Systems, 2014, 41, 247-249.	2.1	3
297	Trimmed affine projection algorithms. , 2014, , .		5
298	Robust monocular SLAM towards motion disturbance. Science Bulletin, 2014, 59, 2050-2056.	1.7	0
299	Hybrid hard-/soft-decision LDPC decoding strategy for NAND flash memory. Science Bulletin, 2014, 59, 3554-3561.	1.7	2
300	A reference governor for reducing path tracking error of mobile platform. , 2014, , .		1
301	Exploiting local linear geometric structure for identifying correct matches. Computer Vision and Image Understanding, 2014, 128, 51-64.	3.0	20
302	Hardware implementation of KLMS algorithm using FPGA. , 2014, , .		9
303	Application-driven dynamic bandwidth allocation for two-layer network-on-chip design. Computers and Electrical Engineering, 2014, 40, 317-332.	3.0	1
304	Depth-Assisted Temporal Error Concealment for Intra Frame Slices in 3-D Video. IEEE Transactions on Broadcasting, 2014, 60, 385-393.	2.5	10
305	Fractal image encoding with flexible classification sets. Science Bulletin, 2014, 59, 1597-1606.	1.7	4
306	Joint Segmentation and Recognition of Categorized Objects From Noisy Web Image Collection. IEEE Transactions on Image Processing, 2014, 23, 4070-4086.	6.0	23

#	ARTICLE	IF	CITATIONS
307	Feature selection based on survival Cauchy-Schwartz mutual information. , 2014, , .		4
308	LDBR: Low-deflection bufferless router for cost-sensitive network-on-chip design. Microprocessors and Microsystems, 2014, 38, 669-680.	1.8	10
309	A computationally efficient source localization method for a mixture of near-field and far-field narrowband signals. , 2014, , .		7
310	Near-field source localization with partly sensor gain and phase uncertainties. , 2014, , .		1
311	Categorization of Multiple Objects in a Scene Using a Biased Sampling Strategy. International Journal of Computer Vision, 2013, 105, 1-18.	10.9	1
312	Training inter-related classifiers for automatic image classification and annotation. Pattern Recognition, 2013, 46, 1382-1395.	5.1	13
313	Nonparametric Illumination Correction for Scanned Document Images via Convex Hulls. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1730-1743.	9.7	18
314	Adaptively post-encoding multiple description video coding. Neurocomputing, 2013, 101, 149-160.	3.5	1
315	Parameter analysis of fractal image compression and its applications in image sharpening and smoothing. Signal Processing: Image Communication, 2013, 28, 681-687.	1.8	9
316	Two-dimensional direction of arrival estimation method for a mixture of noncoherent and coherent narrowband signals. , 2013, , .		2
317	Computationally efficient method for joint azimuth-elevation direction estimation with L-shaped array. , 2013, , .		6
318	A Novel Fractal Image Compression Scheme With Block Classification and Sorting Based on Pearson's Correlation Coefficient. IEEE Transactions on Image Processing, 2013, 22, 3690-3702.	6.0	74
319	Exploring the Use of Emerging Nonvolatile Memory Technologies in Future FPGAs. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 771-775.	2.1	3
320	Adaptive multiple description coding for hybrid networks with dynamic PLR and BER. Signal Processing: Image Communication, 2013, 28, 1132-1142.	1.8	1
321	Automatic salient object extraction with contextual cue and its applications to recognition and alpha matting. Pattern Recognition, 2013, 46, 2874-2889.	5.1	26
322	Kernel minimum error entropy algorithm. Neurocomputing, 2013, 121, 160-169.	3.5	99
323	Universal and low-complexity quantizer design for compressive sensing image coding. , 2013, , .		3
324	Survival kernel with application to kernel adaptive filtering. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
325	Spatio-Temporal Saliency Perception via Hypercomplex Frequency Spectral Contrast. Sensors, 2013, 13, 3409-3431.	2.1	11
326	Constructing Adaptive Complex Cells for Robust Visual Tracking. , 2013, , .		51
327	Scheduling Algorithms for Handling Updates in Shingled Magnetic Recording. , 2013, , .		2
328	A path generation method for automated vehicles based on Bezier curve. , 2013, , .		13
329	Locality preserving verification for image search. , 2013, , .		2
330	Key Object Discovery and Tracking Based on Context-Aware Saliency. International Journal of Advanced Robotic Systems, 2013, 10, 15.	1.3	7
331	Visual Appearance-Based Unmanned Vehicle Sequential Localization. International Journal of Advanced Robotic Systems, 2013, 10, 12.	1.3	4
332	Saliency detection based on biological plausibility of hypercomplex Fourier spectrum contrast. Optics Letters, 2012, 37, 3609.	1.7	3
333	Design and implementation of a video display processing SoC for full HD LCD TV. , 2012, , .		9
334	A robust film-mode detection approach for digital TV SoC design. , 2012, , .		2
335	Low complexity subspace-based two-dimensional direction-of-arrivals tracking of multiple targets. , 2012, , .		2
336	A heterogeneous design methodology for STT-RAM memory system of mobile SoC. , 2012, , .		0
337	Estimation of the number of narrowband signals in the presence of multipath propagation. , 2012, , .		2
338	Automatic extracellular spike detection with piecewise optimal morphological filter. Neurocomputing, 2012, 79, 132-139.	3.5	36
339	IAIR-CarPed: A psychophysically annotated dataset with fine-grained and layered semantic labels for object recognition. Pattern Recognition Letters, 2012, 33, 218-226.	2.6	9
340	Cognitive Cars: A New Frontier for ADAS Research. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 395-407.	4.7	169
341	Architectural Exploration to Enable Sufficient MTJ Device Write Margin for STT-RAM Based Cache. IEEE Transactions on Magnetics, 2012, 48, 2346-2351.	1.2	12
342	Metric Rectification of Curved Document Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 707-722.	9.7	42

#	ARTICLE	IF	CITATIONS
343	Fractal image coding using SSIM. , 2011, , .		10
344	Vehicle detection using an extended Hidden Random Field model. , 2011, , .		26
345	A high performance and low cost video processing SoC for digital HDTV systems. , 2011, , .		2
346	Subspace-Based Adaptive Method for Estimating Direction-of-Arrival With Luenberger Observer. IEEE Transactions on Signal Processing, 2011, 59, 145-159.	3.2	19
347	Integrating Millimeter Wave Radar with a Monocular Vision Sensor for On-Road Obstacle Detection Applications. Sensors, 2011, 11, 8992-9008.	2.1	100
348	An efficient region of interest support in scalable multi-view video coding. IEEE Transactions on Consumer Electronics, 2011, 57, 1271-1279.	3.0	2
349	Learning to Detect a Salient Object. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 353-367.	9.7	1,333
350	Interactive Facial-Geometric-Feature Animation for Generating Expressions of Novel Faces. IEICE Transactions on Information and Systems, 2011, E94-D, 1099-1108.	0.4	2
351	An Improved Technique for Robot Global Localization in Indoor Environments. International Journal of Advanced Robotic Systems, 2011, 8, 7.	1.3	17
352	An integrated visual saliency-based watermarking approach for synchronous image authentication and copyright protection. Signal Processing: Image Communication, 2011, 26, 427-437.	1.8	36
353	Detection of salient objects with focused attention based on spatial and temporal coherence. Science Bulletin, 2011, 56, 1055-1062.	1.7	8
354	A unified context assessing model for object categorization. Computer Vision and Image Understanding, 2011, 115, 310-322.	3.0	4
355	Architecting high-performance energy-efficient soft error resilient cache under 3D integration technology. Microprocessors and Microsystems, 2011, 35, 371-381.	1.8	9
356	Arbitrary ROI-based wavelet video coding. Neurocomputing, 2011, 74, 2114-2122.	3.5	7
357	Expression transfer for facial sketch animation. Signal Processing, 2011, 91, 2465-2477.	2.1	8
358	Computationally Efficient Subspace-Based Method for Two-Dimensional Direction Estimation With L-Shaped Array. IEEE Transactions on Signal Processing, 2011, 59, 3197-3212.	3.2	130
359	Cost-efficient built-in repair analysis for embedded memories with on-chip ECC. , 2011, , .		2
360	3D spatio-temporal graph cuts for video objects segmentation. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
361	Automatic salient object extraction with contextual cue. , 2011, , .		74
362	Complex emotion categorization and tagging for Chinese. , 2011, , .		0
363	A blind and spatial-temporal based video watermarking for H.264/AVC. , 2011, , .		2
364	Design and analysis of high radix complex dividers. , 2010, , .		2
365	Hash key-based video encryption scheme for H.264/AVC. Signal Processing: Image Communication, 2010, 25, 427-437.	1.8	25
366	Scaling iterative closest point algorithm for registration of m ² D point sets. Journal of Visual Communication and Image Representation, 2010, 21, 442-452.	1.7	82
367	Affine iterative closest point algorithm for point set registration. Pattern Recognition Letters, 2010, 31, 791-799.	2.6	137
368	Eye synthesis using the eye curve model. Image and Vision Computing, 2010, 28, 329-342.	2.7	3
369	A Fast Multi-Resolution Iterative Closest Point Algorithm. , 2010, , .		9
370	High performance cluster-based transcoder. , 2010, , .		7
371	A Novel Dual-Probe Adaptive Model for Image Change Detection. IEEE Signal Processing Letters, 2010, 17, 863-866.	2.1	1
372	Design of High-Throughput Fixed-Point Complex Reciprocal/Square-Root Unit. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 627-631.	2.2	18
373	Skew Estimation of Document Images Using Bagging. IEEE Transactions on Image Processing, 2010, 19, 1837-1846.	6.0	16
374	Two-dimensional direction-of-arrival estimation of coherent signals with L-shaped array. , 2010, , .		8
375	New method for joint elevation and azimuth direction estimation with L-shaped array. , 2010, , .		4
376	Detection of the number of coherent narrowband signals with L-shaped sensor array. , 2010, , .		2
377	Computationally efficient method for 2-D DOA estimation with L-shaped sensor array. , 2010, , .		1
378	Picture Collage. IEEE Transactions on Multimedia, 2009, 11, 1225-1239.	5.2	49

#	ARTICLE	IF	CITATIONS
379	Interactive facial sketch expression generation using local constraints. , 2009, , .		1
380	Silhouette quality quantification for gait sequence analysis and recognition. Signal Processing, 2009, 89, 1417-1427.	2.1	11
381	A sequential mobile vehicle location method with visual features. , 2009, , .		0
382	An efficient road detection method in noisy urban environment. , 2009, , .		39
383	Unscented SLAM with conditional iterations. , 2009, , .		3
384	Head pose estimation using isophote features for driver assistance systems. , 2009, , .		7
385	Leveraging Access Locality for the Efficient Use of Multibit Error-Correcting Codes in L2 Cache. IEEE Transactions on Computers, 2009, 58, 1297-1306.	2.4	8
386	Local patch based regularized least squares model for compression artifacts removal. IEEE Transactions on Consumer Electronics, 2009, 55, 2057-2065.	3.0	6
387	A Visual Brain Chip Based on Selective Attention for Robot Vision Application. , 2009, , .		2
388	DRM Oriented Authenticated Group Key Agreement Scheme from Multilinear Form. , 2009, , .		0
389	Perceptual stimulus "A Bayesian-based integration of multi-visual-cue approach and its application. Science Bulletin, 2008, 53, 2886-2897.	4.3	1
390	Solution for supervised graph embedding: A case study. Signal Processing, 2008, 88, 2293-2301.	2.1	0
391	A fast, memory-efficient and parallelizable arc/circle segmentation algorithm. Applied Mathematics and Computation, 2008, 205, 841-848.	1.4	0
392	Modeling and stabilization for a class of nonlinear networked control systems: A T-S fuzzy approach. Progress in Natural Science: Materials International, 2008, 18, 1031-1037.	1.8	27
393	Shading extraction and correction for scanned book images. IEEE Signal Processing Letters, 2008, 15, 849-852.	2.1	7
394	New subspace updating algorithm for adaptive direction estimation and tracking and its statistical analysis. , 2008, , .		0
395	Linear regression models for DCT domain approximate filtering and deblurring. , 2008, , .		0
396	Layered object categorization. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
397	A Dynamic Model for Early Vision Processing. , 2008, , .		2
398	Illumination Transition Image: Parameter-based Illumination Estimation and Re-rendering. , 2008, , .		0
399	Affine Registration of Point Sets Using ICP and ICA. IEEE Signal Processing Letters, 2008, 15, 689-692.	2.1	55
400	Object Recognition by Learning Informative, Biologically Inspired Visual Features. Proceedings International Conference on Image Processing, 2007, , .	0.0	1
401	Facial Expression Sequence Synthesis Based on Shape and Texture Fusion Model. , 2007, , .		3
402	An Expert Fuzzy Controller for Vehicle Lateral Control. , 2007, , .		21
403	Enhancing a Driver's Situation Awareness using a Global View Map. , 2007, , .		4
404	Adaptive VoD Architecture for Heterogeneous Networks Based on Scalable Wavelet Video Coding. IEEE Transactions on Consumer Electronics, 2007, 53, 1401-1409.	3.0	4
405	Interactive Road Situation Analysis for Driver Assistance and Safety Warning Systems: Framework and Algorithms. IEEE Transactions on Intelligent Transportation Systems, 2007, 8, 157-167.	4.7	87
406	Geometric and Statistic Constraints in Dynamic Re-Orientation of On-Board Camera: Inherent Vanishing Points. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	0
407	VLSI Design of a High-Speed and Area-Efficient JPEG2000 Encoder. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1065-1078.	5.6	28
408	Parameterization construction of integer wavelet transforms for embedded image coding. International Journal of Computer Mathematics, 2007, 84, 1339-1352.	1.0	1
409	Simple and Efficient Nonparametric Method for Estimating the Number of Signals Without Eigendecomposition. IEEE Transactions on Signal Processing, 2007, 55, 1405-1420.	3.2	67
410	Parametrization construction of biorthogonal wavelet filter banks for image coding. Signal, Image and Video Processing, 2007, 1, 63-76.	1.7	15
411	Optimal wavelet filter design for remote sensing image compression. Journal of Electronics, 2007, 24, 276-284.	0.2	7
412	Delay-dependent H-infinity control for continuous time-delay systems via state feedback. Journal of Control Theory and Applications, 2007, 5, 221-226.	0.8	2
413	One airport detection method based on support vector machine. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2007, 2, 444-448.	0.6	3
414	Neighborhood discriminant projection for face recognition. Pattern Recognition Letters, 2007, 28, 1156-1163.	2.6	28

#	ARTICLE	IF	CITATIONS
415	An Approach for Constructing Sparse Kernel Classifier. , 2006, , .		0
416	Progress and Challenge of Artificial Intelligence. Journal of Computer Science and Technology, 2006, 21, 810-822.	0.9	17
417	Sequential stratified sampling belief propagation for multiple targets tracking. Science in China Series F: Information Sciences, 2006, 49, 48-62.	1.1	11
418	Nonnegative matrix factorization and its applications in pattern recognition. Science Bulletin, 2006, 51, 7-18.	1.7	86
419	An integrated Monte Carlo data association framework for multi-object tracking. , 2006, , .		0
420	Neighborhood Discriminant Projection for Face Recognition. , 2006, , .		0
421	Boosted Gabor Features Applied to Vehicle Detection. , 2006, , .		39
422	Efficient Rate-Control System With Three Stages for JPEG2000 Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 1063-1073.	5.6	15
423	Variational Image Binarization and its Multi-Scale Realizations. Journal of Mathematical Imaging and Vision, 2005, 23, 185-198.	0.8	8
424	Low-power and high-speed VLSI architecture for lifting-based forward and inverse wavelet transform. IEEE Transactions on Consumer Electronics, 2005, 51, 379-385.	3.0	45
425	Reliable fuzzy control with domain guaranteed cost for fuzzy systems with actuator failures. Progress in Natural Science: Materials International, 2004, 14, 1109-1115.	1.8	7
426	Relative gradient speeding up additive updates for nonnegative matrix factorization. Neurocomputing, 2004, 57, 493-499.	3.5	7
427	Learning sparse features for classification by mixture models. Pattern Recognition Letters, 2004, 25, 155-161.	2.6	19
428	Non-negative matrix factorization based methods for object recognition. Pattern Recognition Letters, 2004, 25, 893-897.	2.6	82
429	Springrobot: A Prototype Autonomous Vehicle and Its Algorithms for Lane Detection. IEEE Transactions on Intelligent Transportation Systems, 2004, 5, 300-308.	4.7	152
430	Toward intelligent driver-assistance and safety warning system. IEEE Intelligent Systems, 2004, 19, 8-11.	4.0	64
431	USING WAVELET TRANSFORM TO ESTIMATE THE EIGENFUNCTIONS OF KARHUNEN-LOEVE EXPANSION. , 2004, , .		0
432	Stereo matching using belief propagation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 787-800.	9.7	1,008

#	ARTICLE	IF	CITATIONS
433	Deterministic annealing learning of the radial basis function nets for improving the regression ability of RBF networks. , 2000, , .		0
434	A theory of constructing locally supported radial wavelet frame and its application. Science in China Series D: Earth Sciences, 1999, 42, 584-594.	0.9	1
435	Multiplicative inhibitory velocity detector and multi-velocity motion detection neural network model. Journal of Computer Science and Technology, 1998, 13, 41-54.	0.9	0
436	Parallel implementing OpenGL on PVM. Parallel Computing, 1997, 23, 1839-1850.	1.3	1
437	Visual knowledge representation and intelligent image segmentation. Journal of Computer Science and Technology, 1992, 7, 219-225.	0.9	2
438	All digital phase-locked loop with a wide locking range. Electronics and Communications in Japan, 1987, 70, 70-77.	0.1	5
439	All digital phase-locked loop with nonlinear multilevel quantized phase comparator. Electronics and Communications in Japan, 1984, 67, 66-75.	0.1	0
440	A sparse-feature-based face detector. , 0, , .		0
441	Multi-DSP based intelligent vehicle vision system and software& hardware co-realization. , 0, , .		0
442	Lane boundary detection using an adaptive randomized Hough transform. , 0, , .		3
443	True single view point multi-resolution catadioptric system for intelligent vehicle. , 0, , .		0
444	Extensible JPEG2000 Image Compression Systems. , 0, , .		1
445	Airport Detection Base on Support Vector Machine from A Single Image. , 0, , .		12