Nanning Zheng

List of Publications by Year
in descending order

445 papers	13,285 citations	44042 48 h-index	38368 95 g-index
449 all docs	449 docs citations	449 times ranked	10055 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

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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. Neurocomputing, 2021, 459, 338-348.	3.5	9
56	A joint object detection and semantic segmentation model with cross-attention and inner-attention mechanisms. Neurocomputing, 2021, 463, 212-225.	3.5	13
57	A Global-Local Coupling Two-Stage Path Planning Method for Mobile Robots. IEEE Robotics and Automation Letters, 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$\times$ 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€blood 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 Neurorobotics, 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

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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 0.13Î¼m 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

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199	Correntropy Maximization via ADMM: Application to Robust Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4944-4955.	2.7	22
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