

Yaonan Wang

List of Publications by Year in descending order

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130
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times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	Anchor Association Learning for Unsupervised Video Person Re-Identification. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1013-1024.	11.3	3
2	A Timestamp-Based Inertial Best-Response Dynamics for Distributed Nash Equilibrium Seeking in Weakly Acyclic Games. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1330-1340.	11.3	2
3	D-BIN: A Generalized Disentangling Batch Instance Normalization for Domain Adaptation. IEEE Transactions on Cybernetics, 2023, 53, 2151-2163.	9.5	2
4	Modal Regression-Based Graph Representation for Noise Robust Face Hallucination. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2490-2502.	11.3	5
5	Distributed Bayesian Inference Over Sensor Networks. IEEE Transactions on Cybernetics, 2023, 53, 1587-1597.	9.5	7
6	A Segmented Variable-Parameter ZNN for Dynamic Quadratic Minimization With Improved Convergence and Robustness. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2413-2424.	11.3	2
7	Elementary Subgraph Features for Link Prediction With Neural Networks. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 3822-3831.	5.7	4
8	Design and Analysis of a Self-Adaptive Zeroing Neural Network for Solving Time-Varying Quadratic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7135-7144.	11.3	9
9	Adaptive Sliding-Mode Disturbance Observer-Based Finite-Time Control for Unmanned Aerial Manipulator With Prescribed Performance. IEEE Transactions on Cybernetics, 2023, 53, 3263-3276.	9.5	19
10	An Augmented Game Approach for Design and Analysis of Distributed Learning Dynamics in Multiagent Games. IEEE Transactions on Cybernetics, 2023, 53, 6951-6962.	9.5	4
11	Adaptive Neural Design of Consensus Controllers for Nonlinear Multiagent Systems Under Switching Topologies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 309-320.	9.3	2
12	Robust Image-Based Landing Control of a Quadrotor on an Unpredictable Moving Vehicle Using Circle Features. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1429-1440.	5.2	7
13	Self-Paced Broad Learning System. IEEE Transactions on Cybernetics, 2023, 53, 4029-4042.	9.5	9
14	Adaptive Prescribed Performance Control of Unmanned Aerial Manipulator With Disturbances. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1804-1814.	5.2	7
15	Consensus-Based Multipopulation Game Dynamics for Distributed Nash Equilibria Seeking and Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 813-823.	9.3	2
16	A Model of Extraction of Railâ€™s Vertical Corrugation Based on Flexible Virtual Ruler. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1097-1108.	8.0	0
17	Bio-Inspired Dynamic Collective Choice in Large-Population Systems: A Robust Mean-Field Game Perspective. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1914-1924.	11.3	2
18	Adamsâ€™Bashforth-Type Discrete-Time Zeroing Neural Networks Solving Time-Varying Complex Sylvester Equation With Enhanced Robustness. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3287-3298.	9.3	4

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19	A Practical Robotic Grasping Method by Using 6-D Pose Estimation With Protective Correction. IEEE Transactions on Industrial Electronics, 2022, 69, 3876-3886.	7.9	15
20	Inverse Optimal Design of Direct Adaptive Fuzzy Controllers for Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 1669-1682.	9.8	20
21	Stochastic Joint Alignment of Multiple Point Clouds for Profiled Blades 3-D Reconstruction. IEEE Transactions on Industrial Electronics, 2022, 69, 1682-1693.	7.9	9
22	Distributed Population Dynamics for Searching Generalized Nash Equilibria of Population Games With Graphical Strategy Interactions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3263-3272.	9.3	15
23	Distributed Group Coordination of Multiagent Systems in Cloud Computing Systems Using a Model-Free Adaptive Predictive Control Strategy. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3461-3473.	11.3	19
24	Low-Complexity Leader-Following Formation Control of Mobile Robots Using Only FOV-Constrained Visual Feedback. IEEE Transactions on Industrial Informatics, 2022, 18, 4665-4673.	11.3	11
25	MRSDI-CNN: Multi-Model Rail Surface Defect Inspection System Based on Convolutional Neural Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11162-11177.	8.0	30
26	Performance Analysis and Applications of Finite-Time ZNN Models With Constant/Fuzzy Parameters for TVQPEI. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6665-6676.	11.3	9
27	Geometric Formation Tracking of Quadrotor UAVs Using Pose-Only Measurements. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1159-1163.	3.0	7
28	An O-Shape Neural Network With Attention Modules to Detect Junctions in Biomedical Images Without Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 774-785.	6.3	7
29	Cliding grasping analysis and hybrid force/position control for unmanned aerial manipulator system. ISA Transactions, 2022, 126, 377-387.	5.7	3
30	Spatial Decomposition-Based Fault Detection Framework for Parabolic-Distributed Parameter Processes. IEEE Transactions on Cybernetics, 2022, 52, 7319-7327.	9.5	9
31	ST-FMT*: A Fast Optimal Global Motion Planning for Mobile Robot. IEEE Transactions on Industrial Electronics, 2022, 69, 3854-3864.	7.9	7
32	Noise Robust Face Hallucination Based on Smooth Correntropy Representation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5953-5965.	11.3	8
33	Resilient Adaptive Neural Control for Uncertain Nonlinear Systems With Infinite Number of Time-Varying Actuator Failures. IEEE Transactions on Cybernetics, 2022, 52, 4356-4369.	9.5	21
34	Composite-Learning-Based Adaptive Neural Control for Dual-Arm Robots With Relative Motion. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1010-1021.	11.3	42
35	Selective Multibranch Attention Network With Material Constraint for Baggage Reidentification. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	1
36	Low-Complexity Prescribed Performance Control for Unmanned Aerial Manipulator Robot System Under Model Uncertainty and Unknown Disturbances. IEEE Transactions on Industrial Informatics, 2022, 18, 4632-4641.	11.3	20

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37	On Generalized Zeroing Neural Network Under Discrete and Distributed Time Delays and Its Application to Dynamic Lyapunov Equation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5114-5126.	9.3	7
38	Active 3-D Thermography Based on Feature-Free Registration of Thermogram Sequence and 3-D Shape Via a Single Thermal Camera. IEEE Transactions on Industrial Electronics, 2022, 69, 11774-11784.	7.9	3
39	Geometric Inlier Selection for Robust Rigid Registration With Application to Blade Surfaces. IEEE Transactions on Industrial Electronics, 2022, 69, 9206-9215.	7.9	2
40	A payoff-based learning approach for Nash equilibrium seeking in continuous potential games. Neurocomputing, 2022, 468, 431-440.	5.9	7
41	DeepRayburst for Automatic Shape Analysis of Tree-Like Structures in Biomedical Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2204-2215.	6.3	2
42	Geometric-based prescribed performance control for unmanned aerial manipulator system under model uncertainties and external disturbances. ISA Transactions, 2022, 128, 367-379.	5.7	1
43	Low-Complexity Control for Vision-Based Landing of Quadrotor UAV on Unknown Moving Platform. IEEE Transactions on Industrial Informatics, 2022, 18, 5348-5358.	11.3	18
44	Structure-Guided Segmentation for 3D Neuron Reconstruction. IEEE Transactions on Medical Imaging, 2022, 41, 903-914.	8.9	18
45	Design and Experiments of a Three-Fingered Dexterous Hand Based on Biomechanical Characteristics of Human Hand Synergies. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2930-2941.	5.8	3
46	Deep-Learning-Based Automated Neuron Reconstruction From 3D Microscopy Images Using Synthetic Training Images. IEEE Transactions on Medical Imaging, 2022, 41, 1031-1042.	8.9	16
47	Design and Analysis of a Noise-Resistant ZNN Model for Settling Time-Variant Linear Matrix Inequality in Predefined-Time. IEEE Transactions on Industrial Informatics, 2022, 18, 6840-6847.	11.3	5
48	Deep Progressive Fusion Stereo Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 25437-25447.	8.0	3
49	A 3D Tubular Flux Model for Centerline Extraction in Neuron Volumetric Images. IEEE Transactions on Medical Imaging, 2022, 41, 1069-1079.	8.9	8
50	Indoor Environment Mapping of Mobile Robot Based on Efficient DSM-PF Method. IEEE Sensors Journal, 2022, 22, 3672-3685.	4.7	3
51	Deep Stereo Matching With Hysteresis Attention and Supervised Cost Volume Construction. IEEE Transactions on Image Processing, 2022, 31, 812-822.	9.8	7
52	Robust Multipoint-Sets Registration for Free-Form Surface Based on Probability. IEEE Transactions on Industrial Electronics, 2022, 69, 13151-13161.	7.9	2
53	An onboard-eye-to-hand visual servo and task coordination control for aerial manipulator based on a spherical model. Mechatronics, 2022, 82, 102724.	3.3	6
54	Circle detection with model fitting in polar coordinates for glass bottle mouth localization. International Journal of Advanced Manufacturing Technology, 2022, 120, 1041-1051.	3.0	5

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55	Attention-Guided Multitask Convolutional Neural Network for Power Line Parts Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	15
56	Palletizing Robot Positioning Bolt Detection Based on Improved YOLO-V3. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	3.4	13
57	Novel stability results of multivariable fractional-order system with time delay. Chaos, Solitons and Fractals, 2022, 157, 111943.	5.1	19
58	Multiview Point Cloud Registration Based on Minimum Potential Energy for Free-Form Blade Measurement. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	4.7	7
59	Impartial Differentiable Automatic Data Augmentation Based on Finite Difference Approximation for Pedestrian Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	3
60	3D Gradient Reconstruction-Based Path Planning Method for Autonomous Vehicle With Enhanced Roll Stability. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20563-20571.	8.0	4
61	Negative Stiffness Analysis and Regulation of In-Hand Manipulation with Underactuated Compliant Hands. , 2022, , .		0
62	Differentiable Automatic Data Augmentation by Proximal Update for Medical Image Segmentation. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1315-1318.	13.1	7
63	Fixed-Time Adaptive Fuzzy Control for Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 3769-3781.	9.8	67
64	Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7314-7325.	9.3	5
65	Adaptive Image-Based Leader–Follower Formation Control of Mobile Robots With Visibility Constraints. IEEE Transactions on Industrial Electronics, 2021, 68, 6010-6019.	7.9	54
66	Efficient Critical Point Detection for Curvilinear Structures Using a Ring-Like Ray-Shooting Model. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	3
67	Vision-Based Formation Control of Mobile Robots With FOV Constraints and Unknown Feature Depth. IEEE Transactions on Control Systems Technology, 2021, 29, 2231-2238.	5.2	31
68	Relation Graph Network for 3D Object Detection in Point Clouds. IEEE Transactions on Image Processing, 2021, 30, 92-107.	9.8	40
69	Two potential fields fused adaptive path planning system for autonomous vehicle under different velocities. ISA Transactions, 2021, 112, 176-185.	5.7	21
70	Spherical-Patches Extraction for Deep-Learning-Based Critical Points Detection in 3D Neuron Microscopy Images. IEEE Transactions on Medical Imaging, 2021, 40, 527-538.	8.9	18
71	Viewpoints Planning for Active 3-D Reconstruction of Profiled Blades Using Estimated Occupancy Probabilities (EOP). IEEE Transactions on Industrial Electronics, 2021, 68, 4109-4119.	7.9	10
72	Neuron Image Segmentation via Learning Deep Features and Enhancing Weak Neuronal Structures. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1634-1645.	6.3	18

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73	DeepSeed Local Graph Matching for Densely Packed Cells Tracking. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1060-1069.	3.0	11
74	Consensus With Persistently Exciting Couplings and Its Application to Vision-Based Estimation. IEEE Transactions on Cybernetics, 2021, 51, 2801-2812.	9.5	7
75	L-CSMS: novel lightweight network for plant disease severity recognition. Journal of Plant Diseases and Protection, 2021, 128, 557-569.	2.9	19
76	Exploiting Global Camera Network Constraints for Unsupervised Video Person Re-Identification. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4020-4030.	8.3	21
77	Multi-Model and Multi-Expert Correlation Filter for High-Speed Tracking. IEEE Access, 2021, 9, 52326-52335.	4.2	3
78	Ultrathin Three-Axis FBG Wrist Force Sensor for Collaborative Robots. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	11
79	3D Neuron Microscopy Image Segmentation via the Ray-Shooting Model and a DC-BLSTM Network. IEEE Transactions on Medical Imaging, 2021, 40, 26-37.	8.9	28
80	Crossover Structure Separation With Application to Neuron Tracing in Volumetric Images. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	2
81	Online 3-D Modeling of Complex Workpieces for the Robotic Spray Painting With Low-Cost RGB-D Cameras. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	6
82	Adaptive and Exponential Synchronization of Uncertain Fractional-Order T-S Fuzzy Complex Networks With Coupling Time-Varying Delays via Pinning Control Strategy. IEEE Access, 2021, 9, 2007-2017.	4.2	6
83	GSNet: Group Sequential Learning for Image Recognition. Cognitive Computation, 2021, 13, 538-551.	5.2	0
84	A Deep Local Patch Matching Network for Cell Tracking in Microscopy Image Sequences Without Registration. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	3.0	3
85	Rigid Shape Matching for 3-D Robotic Grinding Measurement With Applications to Blades. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	2
86	Coordination of low-power nonlinear multi-agent systems using cloud computing and a data-driven hybrid predictive control method. Control Engineering Practice, 2021, 108, 104722.	5.5	7
87	MAMA Net: Multi-Scale Attention Memory Autoencoder Network for Anomaly Detection. IEEE Transactions on Medical Imaging, 2021, 40, 1032-1041.	8.9	29
88	Efficient 3D Junction Detection in Biomedical Images Based on a Circular Sampling Model and Reverse Mapping. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1612-1623.	6.3	3
89	L2-Gain Adaptive Robust Control for Hybrid Energy Storage System in Electric Vehicles. IEEE Transactions on Power Electronics, 2021, 36, 7319-7332.	7.9	56
90	Spatio-temporal fault localization for nonlinear spatially distributed processes: A spatial mapping filter-based framework. International Journal of Robust and Nonlinear Control, 2021, 31, 6953-6971.	3.7	2

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91	HDCB-Net: A Neural Network With the Hybrid Dilated Convolution for Pixel-Level Crack Detection on Concrete Bridges. IEEE Transactions on Industrial Informatics, 2021, 17, 5485-5494.	11.3	64
92	Adaptive fuzzy control of mobile robots with full-state constraints and unknown longitudinal slipping. Nonlinear Dynamics, 2021, 106, 3315-3330.	5.2	11
93	Distributed Formation Control of Quadrotor UAVs Based on Rotation Matrices without Linear Velocity Feedback. International Journal of Control, Automation and Systems, 2021, 19, 3464-3474.	2.7	6
94	Autonomous Removing Foreign Objects for Power Transmission Line by Using a Vision-Guided Unmanned Aerial Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 103, 1.	3.4	8
95	A Parameter-Changing and Complex-Valued Zeroing Neural-Network for Finding Solution of Time-Varying Complex Linear Matrix Equations in Finite Time. IEEE Transactions on Industrial Informatics, 2021, 17, 6634-6643.	11.3	29
96	Automatic Repair of 3-D Neuron Reconstruction Based on Topological Feature Points and an MOST-Based Repairer. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	4
97	Learning Person Re-Identification Models From Videos With Weak Supervision. IEEE Transactions on Image Processing, 2021, 30, 3017-3028.	9.8	43
98	AutoPedestrian: An Automatic Data Augmentation and Loss Function Search Scheme for Pedestrian Detection. IEEE Transactions on Image Processing, 2021, 30, 8483-8496.	9.8	35
99	Multi-Expert Adversarial Attack Detection in Person Re-identification Using Context Inconsistency. , 2021, , .		19
100	DeepBranch: Deep Neural Networks for Branch Point Detection in Biomedical Images. IEEE Transactions on Medical Imaging, 2020, 39, 1195-1205.	8.9	30
101	DM-RIS: Deep Multimodel Rail Inspection System With Improved MRF-GMM and CNN. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1051-1065.	4.7	54
102	A Surface Defect Detection Framework for Glass Bottle Bottom Using Visual Attention Model and Wavelet Transform. IEEE Transactions on Industrial Informatics, 2020, 16, 2189-2201.	11.3	84
103	Graphical Nash Equilibria and Replicator Dynamics on Complex Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1831-1842.	11.3	15
104	Complex-Valued Discrete-Time Neural Dynamics for Perturbed Time-Dependent Complex Quadratic Programming With Applications. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3555-3569.	11.3	72
105	A Practical Visual Servo Control for Aerial Manipulation Using a Spherical Projection Model. IEEE Transactions on Industrial Electronics, 2020, 67, 10564-10574.	7.9	36
106	Real-Time Classification of Rubber Wood Boards Using an SSR-Based CNN. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8725-8734.	4.7	31
107	Robust Control for Unmanned Aerial Manipulator Under Disturbances. IEEE Access, 2020, 8, 129869-129877.	4.2	13
108	A Survey of Brake-by-Wire System for Intelligent Connected Electric Vehicles. IEEE Access, 2020, 8, 225424-225436.	4.2	23

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109	Data-Driven Distributed Coordinated Control for Cloud-Based Model-Free Multiagent Systems With Communication Constraints. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3187-3198.	5.4	27
110	Analysis and Synthesis of Underactuated Compliant Mechanisms Based on Transmission Properties of Motion and Force. IEEE Transactions on Robotics, 2020, 36, 773-788.	10.3	15
111	Autonomous mobile robot path planning in unknown dynamic environments using neural dynamics. Soft Computing, 2020, 24, 13979-13995.	3.6	27
112	CatchIt: Large-scale Grasping combined with Preliminary and Precise Localization method for Aerial Manipulator. , 2020, , .		1
113	Automatic Kidney Lesion Detection for CT Images Using Morphological Cascade Convolutional Neural Networks. IEEE Access, 2019, 7, 83001-83011.	4.2	25
114	Fano resonance in asymmetric gold nano-dimers with square and rectangular sections. Chinese Journal of Physics, 2019, 59, 40-48.	3.9	4
115	Circumnavigation of a Moving Target in 3D by Multi-agent Systems with Collision Avoidance: An Orthogonal Vector Fields-based Approach. International Journal of Control, Automation and Systems, 2019, 17, 212-224.	2.7	24
116	SSG: superpixel segmentation and GrabCut-based salient object segmentation. Visual Computer, 2019, 35, 385-398.	3.5	19
117	Adaptive Tracking Control of Nonholonomic Mobile Manipulators Using Recurrent Neural Networks. International Journal of Control, Automation and Systems, 2018, 16, 1390-1403.	2.7	30
118	Distributed Estimation and Control for Leader-Following Formations of Nonholonomic Mobile Robots. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1946-1954.	5.2	89
119	Benchmark Data Set and Method for Depth Estimation From Light Field Images. IEEE Transactions on Image Processing, 2018, 27, 3586-3598.	9.8	31
120	Calibration and decoupling of multi-axis robotic Force/Moment sensors. Robotics and Computer-Integrated Manufacturing, 2018, 49, 301-308.	9.9	26
121	3D Face Reconstruction from Light Field Images: A Model-Free Approach. Lecture Notes in Computer Science, 2018, , 508-526.	1.3	21
122	Evolutionary Dynamics of Collective Behavior Selection and Drift: Flocking, Collapse, and Oscillation. IEEE Transactions on Cybernetics, 2017, 47, 1694-1705.	9.5	22
123	Cooperative circumnavigation of a moving target with multiple nonholonomic robots using backstepping design. Systems and Control Letters, 2017, 103, 58-65.	2.3	80
124	Design and Analysis of a Sensor System for Cutting Force Measurement in Machining Processes. Sensors, 2016, 16, 70.	3.8	45
125	Analysis and Control of Networked Game Dynamics via A Microscopic Deterministic Approach. IEEE Transactions on Automatic Control, 2016, 61, 4118-4124.	5.7	30
126	Adaptive transmission compensation via human visual system for efficient single image dehazing. Visual Computer, 2016, 32, 653-662.	3.5	9

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127	Robust Regenerative Charging Control Based on T�S Fuzzy Sliding-Mode Approach for Advanced Electric Vehicle. IEEE Transactions on Transportation Electrification, 2016, 2, 52-65.	7.8	45
128	A Novel Diagnosis Method for a Hall Plates-Based Rotary Encoder with a Magnetic Concentrator. Sensors, 2014, 14, 13980-13998.	3.8	10
129	Design of mixed H-two/H-infinity optimal control systems using multiobjective differential evolution algorithm. Journal of Control Theory and Applications, 2013, 11, 521-528.	0.8	7
130	Robust dynamic surface control of flexible joint robots using recurrent neural networks. Journal of Control Theory and Applications, 2013, 11, 222-229.	0.8	14