

Zhiquan He

List of Publications by Year in descending order

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60
papers

1,377
citations

516710

16
h-index

501196

28
g-index

60
all docs

60
docs citations

60
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric machine learning: research and applications. Multimedia Tools and Applications, 2022, 81, 30545-30597.	3.9	3
2	A Comprehensive Review of Computer-Aided Diagnosis of Pulmonary Nodules Based on Computed Tomography Scans. IEEE Access, 2020, 8, 154007-154023.	4.2	33
3	A Review of Hashing Methods for Multimodal Retrieval. IEEE Access, 2020, 8, 15377-15391.	4.2	20
4	Pedestrian Motion Trajectory Prediction With Stereo-Based 3D Deep Pose Estimation and Trajectory Learning. IEEE Access, 2020, 8, 23480-23486.	4.2	23
5	A Comprehensive Survey on Geometric Deep Learning. IEEE Access, 2020, 8, 35929-35949.	4.2	71
6	Adversarial Dual Network Learning With Randomized Image Transform for Restoring Attacked Images. IEEE Access, 2020, 8, 22617-22624.	4.2	12
7	Unsupervised Deep Metric Learning with Transformed Attention Consistency and Contrastive Clustering Loss. Lecture Notes in Computer Science, 2020, , 141-157.	1.3	8
8	Fast Deep Neural Networks With Knowledge Guided Training and Predicted Regions of Interests for Real-Time Video Object Detection. IEEE Access, 2018, 6, 8990-8999.	4.2	52
9	Multimodal Medical Image Registration Based on Feature Spheres in Geometric Algebra. IEEE Access, 2018, 6, 21164-21172.	4.2	32
10	Vehicle recognition in acoustic sensor networks using multiple kernel sparse representation over learned dictionaries. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770143.	2.2	1
11	Facial expression recognition based on LLENet. , 2016, , .		3
12	HEVC compressed domain moving object detection and classification. , 2016, , .		5
13	Visual Informatics Tools for Supporting Large-Scale Collaborative Wildlife Monitoring with Citizen Scientists. IEEE Circuits and Systems Magazine, 2016, 16, 73-86.	2.3	45
14	Volunteer-run cameras as distributed sensors for macrosystem mammal research. Landscape Ecology, 2016, 31, 55-66.	4.2	115
15	Ensemble Video Object Cut in Highly Dynamic Scenes. , 2013, , .		24
16	Semi-supervised learning for robust car windshield tracking and monitoring in live traffic videos. , 2012, , .		2
17	Resource-Distortion Modeling for Video Streaming over Mesh Networks with Priority-Based Packet Scheduling. , 2012, , .		1
18	Transmission Distortion-optimized Unequal Loss Protection for video transmission over packet erasure channels. , 2011, , .		8

#	ARTICLE	IF	CITATIONS
19	Joint Source and Flow Optimization for Scalable Video Multirate Multicast Over Hybrid Wired/Wireless Coded Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 550-564.	8.3	13
20	Prioritized Flow Optimization With Multi-Path and Network Coding Based Routing for Scalable Multirate Multicasting. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 259-273.	8.3	11
21	An Error Resilient Video Coding Scheme Using Embedded Wyner's Ziv Description With Decoder Side Non-Stationary Distortion Modeling. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 498-512.	8.3	6
22	Reconstruction for Distributed Video Coding: A Context-Adaptive Markov Random Field Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1100-1114.	8.3	9
23	Lifetime and Distortion Optimization With Joint Source/Channel Rate Adaptation and Network Coding-Based Error Control in Wireless Video Sensor Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 1182-1194.	6.3	31
24	Adaptive Critic Design for Energy Minimization of Portable Video Communication Devices. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 27-37.	8.3	16
25	SVM-Based Multi-Hop Video Packet Delay Bound Violation Modeling over Mesh Networks. , 2010, , .		0
26	Building recognition using sketch-based representations and spectral graph matching. , 2009, , .		10
27	Video-based activity monitoring for indoor environments. , 2009, , .		15
28	Lossless image compression using super-spatial prediction of structural components. , 2009, , .		2
29	Efficient H.264 video coding with a working memory of objects. , 2009, , .		0
30	Reliability Analysis for Global Motion Estimation. IEEE Signal Processing Letters, 2009, 16, 977-980.	3.6	5
31	Packet-level transmission distortion analysis for video streaming over mesh networks. , 2009, , .		2
32	Energy Minimization of Portable Video Communication Devices Based on Power-Rate-Distortion Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 596-608.	8.3	90
33	Activity Analysis, Summarization, and Visualization for Indoor Human Activity Monitoring. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1489-1498.	8.3	111
34	Energy-aware portable video communication system design for wildlife activity monitoring. IEEE Circuits and Systems Magazine, 2008, 8, 25-37.	2.3	18
35	Adaptive Critic Design for Energy Minimization of Portable Video Communication Devices. , 2008, , .		0
36	A novel incremental rate control scheme for H.264 video coding. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
37	Side information generation with constrained relaxation for distributed multi-view video coding. , 2008, , .		4
38	Distributed Optimization Over Wireless Sensor Networks using Swarm Intelligence. , 2007, , .		7
39	Peak Transform - A Nonlinear Transform for Efficient Image Representation and Coding. , 2007, , .		0
40	Peak Transform for Efficient Image Representation and Coding. IEEE Transactions on Image Processing, 2007, 16, 1741-1754.	9.8	20
41	Low-Complexity and Reliable Moving Objects Detection and Tracking for Aerial Video Surveillance with Small UAVS. , 2007, , .		14
42	Distributed Rate Allocation and Performance Optimization for Video Communication Over Mesh Networks. , 2007, , .		10
43	Peak Transform for Efficient Image Representation and Coding. , 2007, , .		5
44	Adaptive motion estimation schemes using maximum mutual information criterion. Wireless Communications and Mobile Computing, 2007, 7, 205-215.	1.2	0
45	Adaptive Silhouette Extraction in Dynamic Environments Using Fuzzy Logic. , 2006, , .		5
46	Vision-based UAV flight control and obstacle avoidance. , 2006, , .		25
47	Virtual MIMO-Based Cross-Layer Design for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 856-864.	6.3	140
48	Doubling of the Operational Lifetime of Portable Video Communication Devices Using Power-Rate-Distortion Analysis and Control. , 2006, , .		5
49	Adaptive Silhouette Extraction and Human Tracking in Complex and Dynamic Environments. , 2006, , .		16
50	Performance Optimization of Wireless Video Sensor Networks using Swarm Optimization with Convex Mapping. , 2006, , .		1
51	Technology for Successful Aging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
52	Recognizing Falls from Silhouettes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	13
53	Transmission distortion modeling for wireless video communication. , 2005, , .		12
54	MPEG-4 video streaming quality evaluation in IEEE 802.11e WLANs. , 2005, , .		3

#	ARTICLE	IF	CITATIONS
55	Low-pass filtering of rate-distortion functions for quality smoothing in real-time video communication. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 973-981.	8.3	22
56	Performance analysis of wireless video sensors in video surveillance. , 2005, , .		3
57	Power-rate-distortion analysis for wireless video communication under energy constraints. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 645-658.	8.3	254
58	Multimedia communication systems: techniques, standards, and networks [Book Review]. IEEE MultiMedia, 2004, 11, 88-89.	1.7	0
59	Analysis and design of power constrained video encoder. , 0, , .		14
60	From rate-distortion analysis to resource-distortion analysis. , 0, , .		4