

Zhiquan He

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Virtual MIMO-Based Cross-Layer Design for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2006, 55, 856-864.	6.3	140
3	Volunteer-run cameras as distributed sensors for macrosystem mammal research. Landscape Ecology, 2016, 31, 55-66.	4.2	115
4	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
5	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
6	A Comprehensive Survey on Geometric Deep Learning. IEEE Access, 2020, 8, 35929-35949.	4.2	71
7	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
8	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
9	A Comprehensive Review of Computer-Aided Diagnosis of Pulmonary Nodules Based on Computed Tomography Scans. IEEE Access, 2020, 8, 154007-154023.	4.2	33
10	Multimodal Medical Image Registration Based on Feature Spheres in Geometric Algebra. IEEE Access, 2018, 6, 21164-21172.	4.2	32
11	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
12	Vision-based UAV flight control and obstacle avoidance. , 2006, , .		25
13	Ensemble Video Object Cut in Highly Dynamic Scenes. , 2013, , .		24
14	Pedestrian Motion Trajectory Prediction With Stereo-Based 3D Deep Pose Estimation and Trajectory Learning. IEEE Access, 2020, 8, 23480-23486.	4.2	23
15	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
16	Peak Transform for Efficient Image Representation and Coding. IEEE Transactions on Image Processing, 2007, 16, 1741-1754.	9.8	20
17	A Review of Hashing Methods for Multimodal Retrieval. IEEE Access, 2020, 8, 15377-15391.	4.2	20
18	Energy-aware portable video communication system design for wildlife activity monitoring. IEEE Circuits and Systems Magazine, 2008, 8, 25-37.	2.3	18

#	ARTICLE	IF	CITATIONS
19	Adaptive Silhouette Extraction and Human Tracking in Complex and Dynamic Environments. , 2006, , .		16
20	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
21	Video-based activity monitoring for indoor environments. , 2009, , .		15
22	Analysis and design of power constrained video encoder. , 0, , .		14
23	Low-Complexity and Reliable Moving Objects Detection and Tracking for Aerial Video Surveillance with Small UAVS. , 2007, , .		14
24	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
25	Recognizing Falls from Silhouettes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	13
26	Transmission distortion modeling for wireless video communication. , 2005, , .		12
27	Adversarial Dual Network Learning With Randomized Image Transform for Restoring Attacked Images. IEEE Access, 2020, 8, 22617-22624.	4.2	12
28	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
29	Distributed Rate Allocation and Performance Optimization for Video Communication Over Mesh Networks. , 2007, , .		10
30	Building recognition using sketch-based representations and spectral graph matching. , 2009, , .		10
31	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
32	Transmission Distortion-optimized Unequal Loss Protection for video transmission over packet erasure channels. , 2011, , .		8
33	Unsupervised Deep Metric Learning with Transformed Attention Consistency and Contrastive Clustering Loss. Lecture Notes in Computer Science, 2020, , 141-157.	1.3	8
34	Distributed Optimization Over Wireless Sensor Networks using Swarm Intelligence. , 2007, , .		7
35	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
36	Adaptive Silhouette Extraction in Dynamic Environments Using Fuzzy Logic. , 2006, , .		5

#	ARTICLE	IF	CITATIONS
37	Doubling of the Operational Lifetime of Portable Video Communication Devices Using Power-Rate-Distortion Analysis and Control. , 2006, , .		5
38	Peak Transform for Efficient Image Representation and Coding. , 2007, , .		5
39	Reliability Analysis for Global Motion Estimation. IEEE Signal Processing Letters, 2009, 16, 977-980.	3.6	5
40	HEVC compressed domain moving object detection and classification. , 2016, , .		5
41	From rate-distortion analysis to resource-distortion analysis. , 0, , .		4
42	Side information generation with constrained relaxation for distributed multi-view video coding. , 2008, , .		4
43	MPEG-4 video streaming quality evaluation in IEEE 802.11e WLANs. , 2005, , .		3
44	Performance analysis of wireless video sensors in video surveillance. , 2005, , .		3
45	Facial expression recognition based on LLENet. , 2016, , .		3
46	Geometric machine learning: research and applications. Multimedia Tools and Applications, 2022, 81, 30545-30597.	3.9	3
47	A novel incremental rate control scheme for H.264 video coding. , 2008, , .		2
48	Lossless image compression using super-spatial prediction of structural components. , 2009, , .		2
49	Packet-level transmission distortion analysis for video streaming over mesh networks. , 2009, , .		2
50	Semi-supervised learning for robust car windshield tracking and monitoring in live traffic videos. , 2012, , .		2
51	Performance Optimization of Wireless Video Sensor Networks using Swarm Optimization with Convex Mapping. , 2006, , .		1
52	Resource-Distortion Modeling for Video Streaming over Mesh Networks with Priority-Based Packet Scheduling. , 2012, , .		1
53	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
54	Technology for Successful Aging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1

#	ARTICLE	IF	CITATIONS
55	Multimedia communication systems: techniques, standards, and networks [Book Review]. IEEE MultiMedia, 2004, 11, 88-89.	1.7	0
56	Peak Transform - A Nonlinear Transform for Efficient Image Representation and Coding. , 2007, , .		0
57	Adaptive motion estimation schemes using maximum mutual information criterion. Wireless Communications and Mobile Computing, 2007, 7, 205-215.	1.2	0
58	Adaptive Critic Design for Energy Minimization of Portable Video Communication Devices. , 2008, , .		0
59	Efficient H.264 video coding with a working memory of objects. , 2009, , .		0
60	SVM-Based Multi-Hop Video Packet Delay Bound Violation Modeling over Mesh Networks. , 2010, , .		0