

James Z Wang

List of Publications by Year in descending order

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115
papers

9,274
citations

147566

31
h-index

88477

70
g-index

117
all docs

117
docs citations

117
times ranked

5413
citing authors

#	ARTICLE	IF	CITATIONS
1	Image retrieval. ACM Computing Surveys, 2008, 40, 1-60.	16.1	2,430
2	MILES: Multiple-Instance Learning via Embedded Instance Selection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1931-1947.	9.7	585
3	Real-Time Computerized Annotation of Pictures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 985-1002.	9.7	352
4	Aesthetics and Emotions in Images. IEEE Signal Processing Magazine, 2011, 28, 94-115.	4.6	300
5	Content-based image retrieval. , 2005, , .		292
6	Content-based image indexing and searching using Daubechies' wavelets. International Journal on Digital Libraries, 1998, 1, 311-328.	1.1	271
7	RAPID. , 2014, , .		258
8	IRM. , 2000, , .		237
9	CLUE: cluster-based retrieval of images by unsupervised learning. IEEE Transactions on Image Processing, 2005, 14, 1187-1201.	6.0	230
10	Image processing for artist identification. IEEE Signal Processing Magazine, 2008, 25, 37-48.	4.6	220
11	Deep Multi-patch Aggregation Network for Image Style, Aesthetics, and Quality Estimation. , 2015, , .		211
12	Microexpression Identification and Categorization Using a Facial Dynamics Map. IEEE Transactions on Affective Computing, 2017, 8, 254-267.	5.7	185
13	Rating Image Aesthetics Using Deep Learning. IEEE Transactions on Multimedia, 2015, 17, 2021-2034.	5.2	167
14	Studying Digital Imagery of Ancient Paintings by Mixtures of Stochastic Models. IEEE Transactions on Image Processing, 2004, 13, 340-353.	6.0	138
15	Real-time computerized annotation of pictures. , 2006, , .		136
16	Unsupervised multiresolution segmentation for images with low depth of field. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 85-90.	9.7	131
17	POLYGALACTURONASE INVOLVED IN EXPANSION3 Functions in Seedling Development, Rosette Growth, and Stomatal Dynamics in <i>Arabidopsis thaliana</i> . Plant Cell, 2017, 29, 2413-2432.	3.1	117
18	Rhythmic Brushstrokes Distinguish van Gogh from His Contemporaries: Findings via Automated Brushstroke Extraction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1159-1176.	9.7	115

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19	On shape and the computability of emotions. , 2012, 2012, 229-238.		114
20	System for screening objectionable images. Computer Communications, 1998, 21, 1355-1360.	3.1	105
21	Algorithmic inferencing of aesthetics and emotion in natural images: An exposition. , 2008, , .		95
22	Content-based image retrieval by clustering. , 2003, , .		86
23	The Story Picturing Engine--a system for automatic text illustration. ACM Transactions on Multimedia Computing, Communications and Applications, 2006, 2, 68-89.	3.0	80
24	PaDNet: Pan-Density Crowd Counting. IEEE Transactions on Image Processing, 2020, 29, 2714-2727.	6.0	74
25	ACQUINE. , 2010, , .		66
26	OSCAR: On-Site Composition and Aesthetics Feedback Through Exemplars for Photographers. International Journal of Computer Vision, 2012, 96, 353-383.	10.9	61
27	<title>RIME: a replicated image detector for the World Wide Web</title>. , 1998, 3527, 58.		56
28	ARBEE: Towards Automated Recognition of Bodily Expression of Emotion in the Wild. International Journal of Computer Vision, 2020, 128, 1-25.	10.9	54
29	INFORMATION SCIENCE: Enhanced: Cybertools and Archaeology. Science, 2006, 311, 958-959.	6.0	53
30	Integrated Region-Based Image Retrieval. The Kluwer International Series on Information Retrieval, 2001, , .	1.0	52
31	Learning-based linguistic indexing of pictures with 2--d MHMMs. , 2002, , .		50
32	Automated analysis of images in documents for intelligent document search. International Journal on Document Analysis and Recognition, 2009, 12, 65-81.	2.7	50
33	Digital imagery for significant cultural and historical materials. International Journal on Digital Libraries, 2005, 5, 275-286.	1.1	46
34	Fast Discrete Distribution Clustering Using Wasserstein Barycenter With Sparse Support. IEEE Transactions on Signal Processing, 2017, 65, 2317-2332.	3.2	44
35	Thin Cloud Detection of All-Sky Images Using Markov Random Fields. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 417-421.	1.4	43
36	SST: an algorithm for finding near-exact sequence matches in time proportional to the logarithm of the database size. Bioinformatics, 2002, 18, 873-877.	1.8	40

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37	Toward bridging the annotation-retrieval gap in image search by a generative modeling approach. , 2006, , .		40
38	Exploiting the Humanâ€“Machine Gap in Image Recognition for Designing CAPTCHAs. IEEE Transactions on Information Forensics and Security, 2009, 4, 504-518.	4.5	40
39	Automatic image semantic interpretation using social action and tagging data. Multimedia Tools and Applications, 2011, 51, 213-246.	2.6	40
40	Scalable integrated region-based image retrieval using IRM and statistical clustering. , 2001, , .		39
41	Learning the consensus on visual quality for next-generation image management. , 2007, , .		39
42	Balancing Strength and Flexibility: How the Synthesis, Organization, and Modification of Guard Cell Walls Govern Stomatal Development and Dynamics. Frontiers in Plant Science, 2018, 9, 1202.	1.7	37
43	Toward Bridging the Annotation-Retrieval Gap in Image Search. IEEE MultiMedia, 2007, 14, 24-35.	1.5	36
44	A recommender system for component-based applications using machine learning techniques. Knowledge-Based Systems, 2019, 164, 68-84.	4.0	36
45	Wavelets and Imaging Informatics: A Review of the Literature. Journal of Biomedical Informatics, 2001, 34, 129-141.	2.5	31
46	Detecting Dominant Vanishing Points in Natural Scenes with Application to Composition-Sensitive Image Retrieval. IEEE Transactions on Multimedia, 2017, 19, 2651-2665.	5.2	31
47	SIMPLcity: Semantics-sensitive Integrated Matching for Picture Libraries. Lecture Notes in Computer Science, 2000, , 360-371.	1.0	30
48	Diversity in multimedia information retrieval research. , 2006, , .		26
49	Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 795-809.	2.7	24
50	A computationally efficient approach to the estimation of two- and three-dimensional hidden Markov models. IEEE Transactions on Image Processing, 2006, 15, 1871-1886.	6.0	23
51	Joint Image and Text Representation for Aesthetics Analysis. , 2016, , .		23
52	Mechanical Effects of Cellulose, Xyloglucan, and Pectins on Stomatal Guard Cells of Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 1566.	1.7	23
53	A flexible data acquisition system for storing the interactions on mashup user interfaces. Computer Standards and Interfaces, 2018, 59, 10-34.	3.8	22
54	Automatic categorization of figures in scientific documents. , 2006, , .		21

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55	Tagging over time. , 2007, , .		21
56	Fuzzy Content-Based Image Retrieval for Oceanic Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5422-5431.	2.7	21
57	Integrating cell biology, image analysis, and computational mechanical modeling to analyze the contributions of cellulose and xyloglucan to stomatal function. Plant Signaling and Behavior, 2016, 11, e1183086.	1.2	21
58	Quest for relevant tags using local interaction networks and visual content. , 2010, , .		20
59	Feature Selection in AVHRR Ocean Satellite Images by Means of Filter Methods. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 4193-4203.	2.7	19
60	Real-World Image Annotation and Retrieval: An Introduction to the Special Section. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1873-1876.	9.7	17
61	Crowd Counting With Limited Labeling Through Submodular Frame Selection. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1728-1738.	4.7	17
62	MEBOW: Monocular Estimation of Body Orientation in the Wild. , 2020, , .		15
63	Probabilistic Multigraph Modeling for Improving the Quality of Crowdsourced Affective Data. IEEE Transactions on Affective Computing, 2019, 10, 115-128.	5.7	14
64	AI-PLAX: AI-based placental assessment and examination using photos. Computerized Medical Imaging and Graphics, 2020, 84, 101744.	3.5	13
65	A metadata generation system for scanned scientific volumes. , 2008, , .		12
66	An investigation into three visual characteristics of complex scenes that evoke human emotion. , 2017, 2017, 440-447.		11
67	Discovering Triangles in Portraits for Supporting Photographic Creation. IEEE Transactions on Multimedia, 2018, 20, 496-508.	5.2	11
68	Detecting Comma-Shaped Clouds for Severe Weather Forecasting Using Shape and Motion. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3788-3801.	2.7	11
69	Photo Composition Feedback and Enhancement. , 2015, , 113-144.		11
70	Severe Thunderstorm Detection by Visual Learning Using Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1039-1052.	2.7	10
71	The stomatal flexoskeleton: how the biomechanics of guard cell walls animate an elastic pressure vessel. Journal of Experimental Botany, 2019, 70, 3561-3572.	2.4	10
72	Multi-region saliency-aware learning for cross-domain placenta image segmentation. Pattern Recognition Letters, 2020, 140, 165-171.	2.6	10

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73	Determining the sexual identities of prehistoric cave artists using digitized handprints. , 2010, , .		9
74	SHIRAZ: an automated histology image annotation system for zebrafish phenomics. Multimedia Tools and Applications, 2011, 51, 401-440.	2.6	9
75	Image-Specific Prior Adaptation for Denoising. IEEE Transactions on Image Processing, 2015, 24, 5469-5478.	6.0	9
76	Machine annotation and retrieval for digital imagery of historical materials. International Journal on Digital Libraries, 2006, 6, 18-29.	1.1	8
77	Deriving knowledge from figures for digital libraries. , 2007, , .		8
78	Shape matching using skeleton context for automated bow echo detection. , 2016, , .		8
79	An architecture for creating collaborative semantically capable scientific data sharing infrastructures. , 2006, , .		7
80	Parallel Massive Clustering of Discrete Distributions. ACM Transactions on Multimedia Computing, Communications and Applications, 2015, 11, 1-24.	3.0	7
81	LambdaUNet: 2.5D Stroke Lesion Segmentation of Diffusion-Weighted MR Images. Lecture Notes in Computer Science, 2021, , 731-741.	1.0	7
82	Identifying Emotions Aroused from Paintings. Lecture Notes in Computer Science, 2016, , 48-63.	1.0	7
83	Skeleton matching with applications in severe weather detection. Applied Soft Computing Journal, 2018, 70, 1154-1166.	4.1	7
84	Targeted Data-driven Regularization for Out-of-Distribution Generalization. , 2020, , .		7
85	Training data collection system for a learning-based photographic aesthetic quality inference engine. , 2010, , .		6
86	Development and validation of Image Stimuli for Emotion Elicitation (ISEE): A novel affective pictorial system with test-retest repeatability. Psychiatry Research, 2018, 261, 414-420.	1.7	6
87	A microservice-based architecture for enhancing the user experience in cross-device distributed mashup UIs with multiple forms of interaction. Universal Access in the Information Society, 2019, 18, 747-770.	2.1	6
88	Determining Gains Acquired from Word Embedding Quantitatively Using Discrete Distribution Clustering. , 2017, , .		6
89	DeepStroke: An efficient stroke screening framework for emergency rooms with multimodal adversarial deep learning. Medical Image Analysis, 2022, 80, 102522.	7.0	6
90	Region-based retrieval of biomedical images. , 2000, , .		5

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91	Automated segmentation and classification of zebrafish histology images for high-throughput phenotyping. , 2007, , .		5
92	Locating visual storm signatures from satellite images. , 2014, , .		5
93	Beyond Saliency. , 2017, , .		5
94	Intelligent Portrait Composition Assistance. , 2017, , .		5
95	Automatic lattice detection in near-regular histology array images. , 2008, , .		4
96	Towards efficient automated characterization of irregular histology images via transformation to frieze-like patterns. , 2008, , .		4
97	Characterizing elegance of curves computationally for distinguishing Morriseau paintings and the imitations. , 2009, , .		4
98	Simulating rainfall, water evaporation and groundwater flow in three-dimensional satellite images with cellular automata. Simulation Modelling Practice and Theory, 2016, 67, 89-99.	2.2	4
99	Evolving Mashup Interfaces Using a Distributed Machine Learning and Model Transformation Methodology. Lecture Notes in Computer Science, 2015, , 401-410.	1.0	4
100	Modeling Perspective Effects in Photographic Composition. , 2015, , .		4
101	PlacentaNet: Automatic Morphological Characterization of Placenta Photos with Deep Learning. Lecture Notes in Computer Science, 2019, , 487-495.	1.0	4
102	Toward Rapid Stroke Diagnosis with Multimodal Deep Learning. Lecture Notes in Computer Science, 2020, , 616-626.	1.0	4
103	High diversity transforms multimedia information retrieval into a cross-cutting field. SIGMOD Record, 2007, 36, 57-59.	0.7	3
104	Analysis of cyriot icon faces using ICA-enhanced active shape model representation. , 2011, , .		3
105	Enhancing Training Collections for Image Annotation: An Instance-Weighted Mixture Modeling Approach. IEEE Transactions on Image Processing, 2013, 22, 3562-3577.	6.0	3
106	SCOTT: Shape-Location Combined Tracking with Optimal Transport. SIAM Journal on Mathematics of Data Science, 2020, 2, 284-308.	1.0	3
107	Robust Precipitation Bias Correction Through an Ordinal Distribution Autoencoder. IEEE Intelligent Systems, 2022, 37, 60-70.	4.0	3
108	SSAS: Spatiotemporal Scale Adaptive Selection for Improving Bias Correction on Precipitation. IEEE Transactions on Cybernetics, 2022, 52, 12175-12188.	6.2	3

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109	CAPTAIN: Comprehensive Composition Assistance for Photo Taking. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-24.	3.0	2
110	A Stochastic Approach to 3-D Image Modeling. , 2006, , .		0
111	Intelligent Parsing of Scanned Volumes for Web Based Archives. , 2007, , .		0
112	Morphogenetic Profiles in Micron Length Scales for Genetics and Systems Biology. FASEB Journal, 2010, 24, 354.12.	0.2	0
113	Optimally Storing the User Interaction in Mashup Interfaces Within a Relational Database. Lecture Notes in Computer Science, 2016, , 188-195.	1.0	0
114	Panel: Bodily Expressed Emotion Understanding Research: A Multidisciplinary Perspective. Lecture Notes in Computer Science, 2020, , 733-746.	1.0	0
115	Modeling Aesthetics and Emotions in Visual Content. , 2020, , .		0