

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	Robust Precipitation Bias Correction Through an Ordinal Distribution Autoencoder. IEEE Intelligent Systems, 2022, 37, 60-70.	4.0	3
2	SSAS: Spatiotemporal Scale Adaptive Selection for Improving Bias Correction on Precipitation. IEEE Transactions on Cybernetics, 2022, 52, 12175-12188.	6.2	3
3	CAPTAIN: Comprehensive Composition Assistance for Photo Taking. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-24.	3.0	2
4	DeepStroke: An efficient stroke screening framework for emergency rooms with multimodal adversarial deep learning. Medical Image Analysis, 2022, 80, 102522.	7.0	6
5	LambdaUNet: 2.5D Stroke Lesion Segmentation of Diffusion-Weighted MR Images. Lecture Notes in Computer Science, 2021, , 731-741.	1.0	7
6	ARBEE: Towards Automated Recognition of Bodily Expression of Emotion in the Wild. International Journal of Computer Vision, 2020, 128, 1-25.	10.9	54
7	PaDNet: Pan-Density Crowd Counting. IEEE Transactions on Image Processing, 2020, 29, 2714-2727.	6.0	74
8	Multi-region saliency-aware learning for cross-domain placenta image segmentation. Pattern Recognition Letters, 2020, 140, 165-171.	2.6	10
9	MEBOW: Monocular Estimation of Body Orientation in the Wild. , 2020, , .		15
10	AI-PLAX: AI-based placental assessment and examination using photos. Computerized Medical Imaging and Graphics, 2020, 84, 101744.	3.5	13
11	SCOTT: Shape-Location Combined Tracking with Optimal Transport. SIAM Journal on Mathematics of Data Science, 2020, 2, 284-308.	1.0	3
12	Toward Rapid Stroke Diagnosis with Multimodal Deep Learning. Lecture Notes in Computer Science, 2020, , 616-626.	1.0	4
13	Panel: Bodily Expressed Emotion Understanding Research: A Multidisciplinary Perspective. Lecture Notes in Computer Science, 2020, , 733-746.	1.0	0
14	Targeted Data-driven Regularization for Out-of-Distribution Generalization. , 2020, , .		7
15	Modeling Aesthetics and Emotions in Visual Content. , 2020, , .		0
16	Crowd Counting With Limited Labeling Through Submodular Frame Selection. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1728-1738.	4.7	17
17	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
18	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

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19	A recommender system for component-based applications using machine learning techniques. Knowledge-Based Systems, 2019, 164, 68-84.	4.0	36
20	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
21	Probabilistic Multigraph Modeling for Improving the Quality of Crowdsourced Affective Data. IEEE Transactions on Affective Computing, 2019, 10, 115-128.	5.7	14
22	PlacentaNet: Automatic Morphological Characterization of Placenta Photos with Deep Learning. Lecture Notes in Computer Science, 2019, , 487-495.	1.0	4
23	A flexible data acquisition system for storing the interactions on mashup user interfaces. Computer Standards and Interfaces, 2018, 59, 10-34.	3.8	22
24	Discovering Triangles in Portraits for Supporting Photographic Creation. IEEE Transactions on Multimedia, 2018, 20, 496-508.	5.2	11
25	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
26	Mechanical Effects of Cellulose, Xyloglucan, and Pectins on Stomatal Guard Cells of Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 1566.	1.7	23
27	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
28	Skeleton matching with applications in severe weather detection. Applied Soft Computing Journal, 2018, 70, 1154-1166.	4.1	7
29	Microexpression Identification and Categorization Using a Facial Dynamics Map. IEEE Transactions on Affective Computing, 2017, 8, 254-267.	5.7	185
30	Fast Discrete Distribution Clustering Using Wasserstein Barycenter With Sparse Support. IEEE Transactions on Signal Processing, 2017, 65, 2317-2332.	3.2	44
31	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
32	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
33	Severe Thunderstorm Detection by Visual Learning Using Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1039-1052.	2.7	10
34	Beyond Saliency. , 2017, , .		5
35	Intelligent Portrait Composition Assistance. , 2017, , .		5
36	An investigation into three visual characteristics of complex scenes that evoke human emotion. , 2017, 2017, 440-447.		11

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37	Determining Gains Acquired from Word Embedding Quantitatively Using Discrete Distribution Clustering. , 2017, , .		6
38	Shape matching using skeleton context for automated bow echo detection. , 2016, , .		8
39	Joint Image and Text Representation for Aesthetics Analysis. , 2016, , .		23
40	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
41	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
42	Identifying Emotions Aroused from Paintings. Lecture Notes in Computer Science, 2016, , 48-63.	1.0	7
43	Optimally Storing the User Interaction in Mashup Interfaces Within a Relational Database. Lecture Notes in Computer Science, 2016, , 188-195.	1.0	0
44	Deep Multi-patch Aggregation Network for Image Style, Aesthetics, and Quality Estimation. , 2015, , .		211
45	Parallel Massive Clustering of Discrete Distributions. ACM Transactions on Multimedia Computing, Communications and Applications, 2015, 11, 1-24.	3.0	7
46	Rating Image Aesthetics Using Deep Learning. IEEE Transactions on Multimedia, 2015, 17, 2021-2034.	5.2	167
47	Image-Specific Prior Adaptation for Denoising. IEEE Transactions on Image Processing, 2015, 24, 5469-5478.	6.0	9
48	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
49	Photo Composition Feedback and Enhancement. , 2015, , 113-144.		11
50	Evolving Mashup Interfaces Using a Distributed Machine Learning and Model Transformation Methodology. Lecture Notes in Computer Science, 2015, , 401-410.	1.0	4
51	Modeling Perspective Effects in Photographic Composition. , 2015, , .		4
52	Locating visual storm signatures from satellite images. , 2014, , .		5
53	RAPID. , 2014, , .		258
54	Fuzzy Content-Based Image Retrieval for Oceanic Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5422-5431.	2.7	21

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55	Enhancing Training Collections for Image Annotation: An Instance-Weighted Mixture Modeling Approach. IEEE Transactions on Image Processing, 2013, 22, 3562-3577.	6.0	3
56	On shape and the computability of emotions. , 2012, 2012, 229-238.		114
57	Thin Cloud Detection of All-Sky Images Using Markov Random Fields. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 417-421.	1.4	43
58	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
59	OSCAR: On-Site Composition and Aesthetics Feedback Through Exemplars for Photographers. International Journal of Computer Vision, 2012, 96, 353-383.	10.9	61
60	SHIRAZ: an automated histology image annotation system for zebrafish phenomics. Multimedia Tools and Applications, 2011, 51, 401-440.	2.6	9
61	Automatic image semantic interpretation using social action and tagging data. Multimedia Tools and Applications, 2011, 51, 213-246.	2.6	40
62	Analysis of cyriot icon faces using ICA-enhanced active shape model representation. , 2011, , .		3
63	Aesthetics and Emotions in Images. IEEE Signal Processing Magazine, 2011, 28, 94-115.	4.6	300
64	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
65	Determining the sexual identities of prehistoric cave artists using digitized handprints. , 2010, , .		9
66	ACQUINE. , 2010, , .		66
67	Quest for relevant tags using local interaction networks and visual content. , 2010, , .		20
68	Training data collection system for a learning-based photographic aesthetic quality inference engine. , 2010, , .		6
69	Morphogenetic Profiles in Micron Length Scales for Genetics and Systems Biology. FASEB Journal, 2010, 24, 354-12.	0.2	0
70	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
71	Automated analysis of images in documents for intelligent document search. International Journal on Document Analysis and Recognition, 2009, 12, 65-81.	2.7	50
72	Characterizing elegance of curves computationally for distinguishing Morrisseau paintings and the imitations. , 2009, , .		4

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73	Image retrieval. ACM Computing Surveys, 2008, 40, 1-60.	16.1	2,430
74	Image processing for artist identification. IEEE Signal Processing Magazine, 2008, 25, 37-48.	4.6	220
75	Real-Time Computerized Annotation of Pictures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 985-1002.	9.7	352
76	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
77	Automatic lattice detection in near-regular histology array images. , 2008, , .		4
78	Towards efficient automated characterization of irregular histology images via transformation to frieze-like patterns. , 2008, , .		4
79	A metadata generation system for scanned scientific volumes. , 2008, , .		12
80	Algorithmic inferencing of aesthetics and emotion in natural images: An exposition. , 2008, , .		95
81	Automated segmentation and classification of zebrafish histology images for high-throughput phenotyping. , 2007, , .		5
82	Tagging over time. , 2007, , .		21
83	Learning the consensus on visual quality for next-generation image management. , 2007, , .		39
84	Deriving knowledge from figures for digital libraries. , 2007, , .		8
85	High diversity transforms multimedia information retrieval into a cross-cutting field. SIGMOD Record, 2007, 36, 57-59.	0.7	3
86	Intelligent Parsing of Scanned Volumes for Web Based Archives. , 2007, , .		0
87	Toward Bridging the Annotation-Retrieval Gap in Image Search. IEEE MultiMedia, 2007, 14, 24-35.	1.5	36
88	A Stochastic Approach to 3-D Image Modeling. , 2006, , .		0
89	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
90	MILES: Multiple-Instance Learning via Embedded Instance Selection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1931-1947.	9.7	585

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91	Machine annotation and retrieval for digital imagery of historical materials. International Journal on Digital Libraries, 2006, 6, 18-29.	1.1	8
92	Diversity in multimedia information retrieval research. , 2006, , .		26
93	Real-time computerized annotation of pictures. , 2006, , .		136
94	Automatic categorization of figures in scientific documents. , 2006, , .		21
95	Toward bridging the annotation-retrieval gap in image search by a generative modeling approach. , 2006, , .		40
96	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
97	An architecture for creating collaborative semantically capable scientific data sharing infrastructures. , 2006, , .		7
98	INFORMATION SCIENCE: Enhanced: Cybertools and Archaeology. Science, 2006, 311, 958-959.	6.0	53
99	Content-based image retrieval. , 2005, , .		292
100	Digital imagery for significant cultural and historical materials. International Journal on Digital Libraries, 2005, 5, 275-286.	1.1	46
101	CLUE: cluster-based retrieval of images by unsupervised learning. IEEE Transactions on Image Processing, 2005, 14, 1187-1201.	6.0	230
102	Studying Digital Imagery of Ancient Paintings by Mixtures of Stochastic Models. IEEE Transactions on Image Processing, 2004, 13, 340-353.	6.0	138
103	Content-based image retrieval by clustering. , 2003, , .		86
104	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
105	Learning-based linguistic indexing of pictures with 2--d MHMMs. , 2002, , .		50
106	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
107	Wavelets and Imaging Informatics: A Review of the Literature. Journal of Biomedical Informatics, 2001, 34, 129-141.	2.5	31
108	Integrated Region-Based Image Retrieval. The Kluwer International Series on Information Retrieval, 2001, , .	1.0	52

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109	Scalable integrated region-based image retrieval using IRM and statistical clustering. , 2001, , .		39
110	SIMPLcity: Semantics-sensitive Integrated Matching for Picture Libraries. Lecture Notes in Computer Science, 2000, , 360-371.	1.0	30
111	Region-based retrieval of biomedical images. , 2000, , .		5
112	IRM. , 2000, , .		237
113	Content-based image indexing and searching using Daubechies' wavelets. International Journal on Digital Libraries, 1998, 1, 311-328.	1.1	271
114	System for screening objectionable images. Computer Communications, 1998, 21, 1355-1360.	3.1	105
115	<title>RIME: a replicated image detector for the World Wide Web</title>. , 1998, 3527, 58.		56