

Wei-Shi Zheng

List of Publications by Year in descending order

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174
papers

9,071
citations

109264

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times ranked

5396
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning Multi-Attention Context Graph for Group-Based Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 7001-7018.	9.7	26
2	Egocentric Action Recognition by Automatic Relation Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 489-507.	9.7	6
3	Semisupervised Feature Learning by Deep Entropy-Sparsity Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 774-788.	7.2	3
4	Deep Graph Metric Learning for Weakly Supervised Person Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6074-6093.	9.7	10
5	A Blind Color Separation Model for Faithful Palette-Based Image Recoloring. IEEE Transactions on Multimedia, 2022, 24, 1545-1557.	5.2	13
6	Spectral-Spatial Transformer Network for Hyperspectral Image Classification: A Factorized Architecture Search Framework. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	68
7	Unsupervised Intrinsic Image Decomposition Using Internal Self-Similarity Cues. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9669-9686.	9.7	8
8	Heterogeneous graph driven unsupervised domain adaptation of person re-identification. Neurocomputing, 2022, 471, 1-11.	3.5	6
9	Joint Bilateral-Resolution Identity Modeling for Cross-Resolution Person Re-Identification. International Journal of Computer Vision, 2022, 130, 136-156.	10.9	8
10	Adaptive Action Assessment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8779-8795.	9.7	9
11	Semi-Supervised Action Quality Assessment With Self-Supervised Segment Feature Recovery. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6017-6028.	5.6	10
12	Probabilistic Temporal Modeling for Unintentional Action Localization. IEEE Transactions on Image Processing, 2022, 31, 3081-3094.	6.0	6
13	AR-CNN: an attention ranking network for learning urban perception. Science China Information Sciences, 2022, 65, 1.	2.7	1
14	A deep learning model and human-machine fusion for prediction of EBV-associated gastric cancer from histopathology. Nature Communications, 2022, 13, 2790.	5.8	31
15	TransGrasp: A Multi-Scale Hierarchical Point Transformer for 7-DoF Grasp Detection. , 2022, , .		7
16	Enhancing Underexposed Photos Using Perceptually Bidirectional Similarity. IEEE Transactions on Multimedia, 2021, 23, 189-202.	5.2	20
17	Arbitrary-View Human Action Recognition: A Varying-View RGB-D Action Dataset. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 289-300.	5.6	23
18	Joint adaptive manifold and embedding learning for unsupervised feature selection. Pattern Recognition, 2021, 112, 107742.	5.1	25

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19	Person Re-Identification by Contour Sketch Under Moderate Clothing Change. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2029-2046.	9.7	83
20	Semi-supervised Person Re-identification by Attribute Similarity Guidance. , 2021, , .		0
21	Letter-Level Online Writer Identification. International Journal of Computer Vision, 2021, 129, 1394-1409.	10.9	10
22	Joint regression and learning from pairwise rankings for personalized image aesthetic assessment. Computational Visual Media, 2021, 7, 241-252.	10.8	6
23	Towards Unbiased Covid-19 Lesion Localisation And Segmentation Via Weakly Supervised Learning. , 2021, , .		11
24	Guest Editorial Introduction to the Special Issue on Large-Scale Visual Sensor Networks: Architectures and Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1249-1252.	5.6	3
25	Cross-Scene Person Trajectory Anomaly Detection Based on Re-Identification. , 2021, , .		0
26	Temporal Label Aggregation for Unintentional Action Localization. , 2021, , .		3
27	Online deep transferable dictionary learning. Pattern Recognition, 2021, 118, 108007.	5.1	5
28	Part Relational Mean Model for Group Re-Identification. IEEE Access, 2021, 9, 46265-46279.	2.6	2
29	Cross-modal Consensus Network for Weakly Supervised Temporal Action Localization. , 2021, , .		38
30	Cross-Camera Feature Prediction for Intra-Camera Supervised Person Re-identification across Distant Scenes. , 2021, , .		11
31	MIST: Multiple Instance Self-Training Framework for Video Anomaly Detection. , 2021, , .		115
32	Fine-Grained Shape-Appearance Mutual Learning for Cloth-Changing Person Re-Identification. , 2021, , .		56
33	Learning 3D Shape Feature for Texture-insensitive Person Re-identification. , 2021, , .		38
34	Combined Depth Space based Architecture Search For Person Re-identification. , 2021, , .		65
35	Graph-based High-order Relation Modeling for Long-term Action Recognition. , 2021, , .		21
36	Unsupervised Person Re-Identification by Deep Asymmetric Metric Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 956-973.	9.7	104

#	ARTICLE	IF	CITATIONS
37	Fast Collective Activity Recognition Under Weak Supervision. IEEE Transactions on Image Processing, 2020, 29, 29-43.	6.0	26
38	On large appearance change in visual tracking. Neural Computing and Applications, 2020, 32, 6089-6109.	3.2	1
39	Fine-Grained Person Re-identification. International Journal of Computer Vision, 2020, 128, 1654-1672.	10.9	34
40	Adaptive Interaction Modeling via Graph Operations Search. , 2020, , .		2
41	Learning to Detect Important People in Unlabelled Images for Semi-Supervised Important People Detection. , 2020, , .		9
42	Spatial-Temporal Graph Convolutional Network for Video-Based Person Re-Identification. , 2020, , .		123
43	Squeeze-and-Attention Networks for Semantic Segmentation. , 2020, , .		156
44	Weakly Supervised Discriminative Feature Learning With State Information for Person Identification. , 2020, , .		19
45	Deep Camouflage Images. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12845-12852.	3.6	9
46	S3D-CNN: skeleton-based 3D consecutive-low-pooling neural network for fall detection. Applied Intelligence, 2020, 50, 3521-3534.	3.3	27
47	Joint graph regularized dictionary learning and sparse ranking for multi-modal multi-shot person re-identification. Pattern Recognition, 2020, 104, 107352.	5.1	4
48	RGB-IR Person Re-identification by Cross-Modality Similarity Preservation. International Journal of Computer Vision, 2020, 128, 1765-1785.	10.9	75
49	Anomaly Detection on Electroencephalography with Self-supervised Learning. , 2020, , .		11
50	Early Action Prediction by Soft Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2568-2583.	9.7	71
51	Unsupervised Learning for Optical Flow Estimation Using Pyramid Convolution LSTM. , 2019, , .		16
52	Fast Person Search Pipeline. , 2019, , .		8
53	Discrimination of the behavioural dynamics of visually impaired infants via deep learning. Nature Biomedical Engineering, 2019, 3, 860-869.	11.6	13
54	Particle Swarm Loss for Lightweight Object Detection. , 2019, , .		0

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55	Affective Video Content Analyses by Using Cross-Modal Embedding Learning Features. , 2019, , .		2
56	Pedestrian re-Identification Based on Tree Branch Network with Local and Global Learning. , 2019, , .		9
57	Action Knowledge Transfer for Action Prediction with Partial Videos. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8118-8125.	3.6	20
58	Data Augmentation is More Important Than Model Architectures for Retinal Vessel Segmentation. , 2019, , .		8
59	Deep asymmetric video-based person re-identification. Pattern Recognition, 2019, 93, 430-441.	5.1	21
60	One-pass person re-identification by sketch online discriminant analysis. Pattern Recognition, 2019, 93, 237-250.	5.1	16
61	Efficient and Switchable CNN for Crowd Counting Based on Embedded Terminal. IEEE Access, 2019, 7, 51533-51541.	2.6	6
62	Action Assessment by Joint Relation Graphs. , 2019, , .		56
63	Unsupervised Person Re-Identification by Camera-Aware Similarity Consistency Learning. , 2019, , .		75
64	Weakly Supervised Open-Set Domain Adaptation by Dual-Domain Collaboration. , 2019, , .		11
65	A Decomposition Algorithm for the Sparse Generalized Eigenvalue Problem. , 2019, , .		6
66	Underexposed Photo Enhancement Using Deep Illumination Estimation. , 2019, , .		468
67	Retinal Artery/Vein Classification via Rotation Augmentation and Deeply Supervised U-net Segmentation. , 2019, , .		6
68	Dual Illumination Estimation for Robust Exposure Correction. Computer Graphics Forum, 2019, 38, 243-252.	1.8	73
69	Distilled Camera-Aware Self Training for Semi-Supervised Person Re-Identification. IEEE Access, 2019, 7, 156752-156763.	2.6	8
70	One-pot fabrication of durable antibacterial cotton fabric coated with silver nanoparticles via carboxymethyl chitosan as a binder and stabilizer. Carbohydrate Polymers, 2019, 204, 42-49.	5.1	102
71	DBDNet: Learning Bi-directional Dynamics for Early Action Prediction. , 2019, , .		17
72	Maximal granularity structure and generalized multi-view discriminant analysis for person re-identification. Pattern Recognition, 2018, 79, 79-96.	5.1	27

#	ARTICLE	IF	CITATIONS
73	Euler Clustering on Large-Scale Dataset. IEEE Transactions on Big Data, 2018, 4, 502-515.	4.4	14
74	Fast Open-World Person Re-Identification. IEEE Transactions on Image Processing, 2018, 27, 2286-2300.	6.0	55
75	Global-Local Temporal Saliency Action Prediction. IEEE Transactions on Image Processing, 2018, 27, 2272-2285.	6.0	24
76	TW-Co-k-means: Two-level weighted collaborative k-means for multi-view clustering. Knowledge-Based Systems, 2018, 150, 127-138.	4.0	58
77	Learning an Intrinsic Image Decomposer Using Synthesized RGB-D Dataset. IEEE Signal Processing Letters, 2018, 25, 753-757.	2.1	8
78	Online Hashing. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2309-2322.	7.2	39
79	Person Re-Identification by Camera Correlation Aware Feature Augmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 392-408.	9.7	234
80	Image to Video Person Re-Identification by Learning Heterogeneous Dictionary Pair With Feature Projection Matrix. IEEE Transactions on Information Forensics and Security, 2018, 13, 717-732.	4.5	49
81	High-Quality Exposure Correction of Underexposed Photos. , 2018, , .		75
82	Learning Intrinsic Image Decomposition by Deep Neural Network with Perceptual Loss. , 2018, , .		0
83	Unsupervised Learning for Forecasting Action Representations. , 2018, , .		1
84	A Large-scale RGB-D Database for Arbitrary-view Human Action Recognition. , 2018, , .		33
85	GL-PAM RGB-D Gesture Recognition. , 2018, , .		4
86	Light Person Re-Identification by Multi-Cue Tiny Net. , 2018, , .		3
87	PersonRank: Detecting Important People in Images. , 2018, , .		10
88	Fully convolutional network ensembles for white matter hyperintensities segmentation in MR images. NeuroImage, 2018, 183, 650-665.	2.1	155
89	Adversarial Open-World Person Re-Identification. Lecture Notes in Computer Science, 2018, , 287-303.	1.0	23
90	Deep Bilinear Learning for RGB-D Action Recognition. Lecture Notes in Computer Science, 2018, , 346-362.	1.0	55

#	ARTICLE	IF	CITATIONS
91	Asymmetric person re-identification: cross-view person tracking in a large camera network. Scientia Sinica Informationis, 2018, 48, 545-563.	0.2	1
92	Long-Term Human Motion Prediction by Modeling Motion Context and Enhancing Motion Dynamics. , 2018, , .		80
93	Representation Learning for Scene Graph Completion via Jointly Structural and Visual Embedding. , 2018, , .		20
94	MIXGAN: Learning Concepts from Different Domains for Mixture Generation. , 2018, , .		8
95	An Asymmetric Distance Model for Cross-View Feature Mapping in Person Reidentification. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1661-1675.	5.6	64
96	Illumination invariant single face image recognition under heterogeneous lighting condition. Pattern Recognition, 2017, 66, 313-327.	5.1	25
97	Robust Depth-Based Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 2588-2603.	6.0	110
98	Semi-Supervised Multi-View Discrete Hashing for Fast Image Search. IEEE Transactions on Image Processing, 2017, 26, 2604-2617.	6.0	38
99	Multiple metric learning based on bar-shape descriptor for person re-identification. Pattern Recognition, 2017, 71, 218-234.	5.1	23
100	Multi-view collaborative locally adaptive clustering with Minkowski metric. Expert Systems With Applications, 2017, 86, 307-320.	4.4	30
101	Sparse transfer for facial shape-from-shading. Pattern Recognition, 2017, 68, 272-285.	5.1	10
102	Multi-task mid-level feature learning for micro-expression recognition. Pattern Recognition, 2017, 66, 44-52.	5.1	38
103	Jointly Learning Heterogeneous Features for RGB-D Activity Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2186-2200.	9.7	133
104	Latent embeddings for collective activity recognition. , 2017, , .		14
105	RGB-Infrared Cross-Modality Person Re-identification. , 2017, , .		346
106	A Matrix Splitting Method for Composite Function Minimization. , 2017, , .		0
107	Efficient symmetry-driven fully convolutional network for multimodal brain tumor segmentation. , 2017, , .		26
108	Cross-View Asymmetric Metric Learning for Unsupervised Person Re-Identification. , 2017, , .		208

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109	HEp-2 specimen classification via deep CNNs and pattern histogram. , 2016, , .		2
110	Sketch metric learning. , 2016, , .		0
111	Online visual tracking via correlation filter with convolutional networks. , 2016, , .		2
112	How many clusters? A robust PSO-based local density model. Neurocomputing, 2016, 207, 264-275.	3.5	36
113	Real-Time RGB-D Activity Prediction by Soft Regression. Lecture Notes in Computer Science, 2016, , 280-296.	1.0	54
114	Facial skin beautification via sparse representation over learned layer dictionary. , 2016, , .		4
115	Top-Push Video-Based Person Re-identification. , 2016, , .		166
116	An enhanced deep feature representation for person re-identification. , 2016, , .		175
117	Weighted Multi-view On-Line Competitive Clustering. , 2016, , .		3
118	Exemplar-Based Recognition of Human-Object Interactions. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 647-660.	5.6	24
119	Learning object-specific DAGs for multi-label material recognition. Computer Vision and Image Understanding, 2016, 143, 183-190.	3.0	5
120	Cross-Scenario Transfer Person Reidentification. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1447-1460.	5.6	57
121	One-pass online learning: A local approach. Pattern Recognition, 2016, 51, 346-357.	5.1	17
122	Towards Open-World Person Re-Identification by One-Shot Group-Based Verification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 591-606.	9.7	135
123	HEp-2 cells staining patterns classification via wavelet scattering network and random forest. , 2015, , .		3
124	Depth-based person re-identification. , 2015, , .		3
125	Towards more reliable matching for person re-identification. , 2015, , .		2
126	Partial Person Re-Identification. , 2015, , .		170

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127	Multi-Scale Learning for Low-Resolution Person Re-Identification. , 2015, , .		99
128	Jointly learning heterogeneous features for RGB-D activity recognition. , 2015, , .		261
129	Learning Personâ€Person Interaction in Collective Activity Recognition. IEEE Transactions on Image Processing, 2015, 24, 1905-1918.	6.0	29
130	Approximate kernel competitive learning. Neural Networks, 2015, 63, 117-132.	3.3	8
131	Case-based teaching using the Laboratory Animal System for learning C/C++ programming. Computers and Education, 2014, 77, 39-49.	5.1	18
132	Matching NIR Face to VIS Face Using Transduction. IEEE Transactions on Information Forensics and Security, 2014, 9, 501-514.	4.5	80
133	Group Association: Assisting Re-identification by Visual Context. , 2014, , 183-201.		9
134	Linear Dimension Reduction Techniques. , 2014, , 1-8.		0
135	Robust spectral regression for face recognition. Neurocomputing, 2013, 118, 33-40.	3.5	8
136	SVStream: A Support Vector-Based Algorithm for Clustering Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1410-1424.	4.0	68
137	A fast convex conjugated algorithm for sparse recovery. Neurocomputing, 2013, 115, 178-185.	3.5	4
138	Reidentification by Relative Distance Comparison. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 653-668.	9.7	659
139	Two-Stage Nonnegative Sparse Representation for Large-Scale Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 35-46.	7.2	107
140	Recognising Human-Object Interaction via Exemplar Based Modelling. , 2013, , .		38
141	Learning from Partially Annotated OPT Images by Contextual Relevance Ranking. Lecture Notes in Computer Science, 2013, 16, 429-436.	1.0	1
142	Transductive VIS-NIR face matching. , 2012, , .		4
143	Transfer re-identification: From person to set-based verification. , 2012, , .		13
144	ℓ_2, ℓ_1 Regularized correntropy for robust feature selection. , 2012, , .		30

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145	A facial sparse descriptor for single image based face recognition. Neurocomputing, 2012, 93, 77-87.	3.5	13
146	A Novel Approach for Stroke Extraction of Off-Line Chinese Handwritten Characters Based on Optimum Paths. , 2012, , .		1
147	Extracting non-negative basis images using pixel dispersion penalty. Pattern Recognition, 2012, 45, 2912-2926.	5.1	17
148	Quantifying and Transferring Contextual Information in Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 762-777.	9.7	34
149	Robust large margin discriminant tangent analysis for face recognition. Neural Computing and Applications, 2012, 21, 269-279.	3.2	4
150	Recovery of corrupted low-rank matrices via half-quadratic based nonconvex minimization. , 2011, , .		40
151	Kernel Methods for Facial Image Preprocessing. , 2011, , 389-409.		2
152	Normalization of Face Illumination Based on Large-and Small-Scale Features. IEEE Transactions on Image Processing, 2011, 20, 1807-1821.	6.0	118
153	Robust Principal Component Analysis Based on Maximum Correntropy Criterion. IEEE Transactions on Image Processing, 2011, 20, 1485-1494.	6.0	276
154	Spatial&temporal consistent labeling of tracked pedestrians across non-overlapping camera views. Pattern Recognition, 2011, 44, 1121-1136.	5.1	35
155	Non-ideal class non-point light source quotient image for face relighting. Signal Processing, 2011, 91, 1048-1053.	2.1	6
156	Person re-identification by probabilistic relative distance comparison. , 2011, , .		479
157	A Regularized Correntropy Framework for Robust Pattern Recognition. Neural Computation, 2011, 23, 2074-2100.	1.3	110
158	Nonnegative sparse coding for discriminative semi-supervised learning. , 2011, , .		76
159	Extraction of illumination invariant facial features from a single image using nonsubsamped contourlet transform. Pattern Recognition, 2010, 43, 4177-4189.	5.1	67
160	Principal component analysis based on non-parametric maximum entropy. Neurocomputing, 2010, 73, 1840-1852.	3.5	44
161	Person Re-Identification by Support Vector Ranking. , 2010, , .		470
162	Restoration of a Frontal Illuminated Face Image Based on KPCA. , 2010, , .		4

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163	Penalized Preimage Learning in Kernel Principal Component Analysis. IEEE Transactions on Neural Networks, 2010, 21, 551-570.	4.8	48
164	Face Hallucination Through KPCA. , 2009, , .		3
165	Perturbation LDA: Learning the difference between the class empirical mean and its expectation. Pattern Recognition, 2009, 42, 764-779.	5.1	21
166	Associating Groups of People. , 2009, , .		295
167	Linear Dimension Reduction. , 2009, , 899-904.		0
168	1D-LDA vs. 2D-LDA: When is vector-based linear discriminant analysis better than matrix-based?. Pattern Recognition, 2008, 41, 2156-2172.	5.1	86
169	Reducing Impact of Inaccurate User Feedback in Face Retrieval. , 2008, , .		3
170	Face illumination normalization on large and small scale features. , 2008, , .		23
171	On Constrained Sparse Matrix Factorization. , 2007, , .		5
172	Regularized Locality Preserving Learning of Pre-Image Problem in Kernel Principal Component Analysis. , 2006, , .		8
173	Weakly Supervised Learning on Pre-image Problem in Kernel Methods. , 2006, , .		8
174	GA-Fisher: A New LDA-Based Face Recognition Algorithm With Selection of Principal Components. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1065-1078.	5.5	81