Wei-Shi Zheng

List of Publications by Year
in descending order

174	9,071	109311	106340
papers	citations	35	65
		h-index	g-index

176	176	176	5396
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reidentification by Relative Distance Comparison. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 653-668.	13.9	659
2	Person re-identification by probabilistic relative distance comparison. , 2011, , .		479
3	Person Re-Identification by Support Vector Ranking. , 2010, , .		470
4	Underexposed Photo Enhancement Using Deep Illumination Estimation. , 2019, , .		468
5	RGB-Infrared Cross-Modality Person Re-identification. , 2017, , .		346
6	Associating Groups of People. , 2009, , .		295
7	Robust Principal Component Analysis Based on Maximum Correntropy Criterion. IEEE Transactions on Image Processing, 2011, 20, 1485-1494.	9.8	276
8	Jointly learning heterogeneous features for RGB-D activity recognition. , 2015, , .		261
9	Person Re-Identification by Camera Correlation Aware Feature Augmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 392-408.	13.9	234
10	Cross-View Asymmetric Metric Learning for Unsupervised Person Re-Identification. , 2017, , .		208
11	An enhanced deep feature representation for person re-identification. , 2016, , .		175
12	Partial Person Re-Identification. , 2015, , .		170
13	Top-Push Video-Based Person Re-identification. , 2016, , .		166
14	Squeeze-and-Attention Networks for Semantic Segmentation. , 2020, , .		156
15	Fully convolutional network ensembles for white matter hyperintensities segmentation in MR images. NeuroImage, 2018, 183, 650-665.	4.2	155
16	Towards Open-World Person Re-Identification by One-Shot Group-Based Verification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 591-606.	13.9	135
17	Jointly Learning Heterogeneous Features for RGB-D Activity Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 2186-2200.	13.9	133
18	Spatial-Temporal Graph Convolutional Network for Video-Based Person Re-Identification. , 2020, , .		123

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19	Normalization of Face Illumination Based on Large-and Small-Scale Features. IEEE Transactions on Image Processing, 2011, 20, 1807-1821.	9.8	118
20	MIST: Multiple Instance Self-Training Framework for Video Anomaly Detection. , 2021, , .		115
21	A Regularized Correntropy Framework for Robust Pattern Recognition. Neural Computation, 2011, 23, 2074-2100.	2.2	110
22	Robust Depth-Based Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 2588-2603.	9.8	110
23	Two-Stage Nonnegative Sparse Representation for Large-Scale Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 35-46.	11.3	107
24	Unsupervised Person Re-Identification by Deep Asymmetric Metric Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 956-973.	13.9	104
25	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.	10.2	102
26	Multi-Scale Learning for Low-Resolution Person Re-Identification. , 2015, , .		99
27	1D-LDA vs. 2D-LDA: When is vector-based linear discriminant analysis better than matrix-based?. Pattern Recognition, 2008, 41, 2156-2172.	8.1	86
28	Person Re-Identification by Contour Sketch Under Moderate Clothing Change. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2029-2046.	13.9	83
29	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.	5.0	81
30	Matching NIR Face to VIS Face Using Transduction. IEEE Transactions on Information Forensics and Security, 2014, 9, 501-514.	6.9	80
31	Long-Term Human Motion Prediction by Modeling Motion Context and Enhancing Motion Dynamics. , 2018, , .		80
32	Nonnegative sparse coding for discriminative semi-supervised learning. , 2011, , .		76
33	High-Quality Exposure Correction of Underexposed Photos. , 2018, , .		75
34	Unsupervised Person Re-Identification by Camera-Aware Similarity Consistency Learning. , 2019, , .		75
35	RGB-IR Person Re-identification by Cross-Modality Similarity Preservation. International Journal of Computer Vision, 2020, 128, 1765-1785.	15.6	75
36	Dual Illumination Estimation for Robust Exposure Correction. Computer Graphics Forum, 2019, 38, 243-252.	3.0	73

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37	Early Action Prediction by Soft Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2568-2583.	13.9	71
38	SVStream: A Support Vector-Based Algorithm for Clustering Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 1410-1424.	5.7	68
39	Spectral–Spatial Transformer Network for Hyperspectral Image Classification: A Factorized Architecture Search Framework. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	68
40	Extraction of illumination invariant facial features from a single image using nonsubsampled contourlet transform. Pattern Recognition, 2010, 43, 4177-4189.	8.1	67
41	Combined Depth Space based Architecture Search For Person Re-identification. , 2021, , .		65
42	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.	8.3	64
43	TW-Co-k-means: Two-level weighted collaborative k-means for multi-view clustering. Knowledge-Based Systems, 2018, 150, 127-138.	7.1	58
44	Cross-Scenario Transfer Person Reidentification. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1447-1460.	8.3	57
45	Action Assessment by Joint Relation Graphs. , 2019, , .		56
46	Fine-Grained Shape-Appearance Mutual Learning for Cloth-Changing Person Re-Identification. , 2021, , .		56
47	Fast Open-World Person Re-Identification. IEEE Transactions on Image Processing, 2018, 27, 2286-2300.	9.8	55
48	Deep Bilinear Learning for RGB-D Action Recognition. Lecture Notes in Computer Science, 2018, , 346-362.	1.3	55
49	Real-Time RGB-D Activity Prediction by Soft Regression. Lecture Notes in Computer Science, 2016, , 280-296.	1.3	54
50	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.	6.9	49
51	Penalized Preimage Learning in Kernel Principal Component Analysis. IEEE Transactions on Neural Networks, 2010, 21, 551-570.	4.2	48
52	Principal component analysis based on non-parametric maximum entropy. Neurocomputing, 2010, 73, 1840-1852.	5.9	44
53	Recovery of corrupted low-rank matrices via half-quadratic based nonconvex minimization. , 2011, , .		40
54	Online Hashing. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2309-2322.	11.3	39

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55	Recognising Human-Object Interaction via Exemplar Based Modelling. , 2013, , .		38
56	Semi-Supervised Multi-View Discrete Hashing for Fast Image Search. IEEE Transactions on Image Processing, 2017, 26, 2604-2617.	9.8	38
57	Multi-task mid-level feature learning for micro-expression recognition. Pattern Recognition, 2017, 66, 44-52.	8.1	38
58	Cross-modal Consensus Network for Weakly Supervised Temporal Action Localization. , 2021, , .		38
59	Learning 3D Shape Feature for Texture-insensitive Person Re-identification. , 2021, , .		38
60	How many clusters? A robust PSO-based local density model. Neurocomputing, 2016, 207, 264-275.	5.9	36
61	Spatial–temporal consistent labeling of tracked pedestrians across non-overlapping camera views. Pattern Recognition, 2011, 44, 1121-1136.	8.1	35
62	Quantifying and Transferring Contextual Information in Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 762-777.	13.9	34
63	Fine-Grained Person Re-identification. International Journal of Computer Vision, 2020, 128, 1654-1672.	15.6	34
64	A Large-scale RGB-D Database for Arbitrary-view Human Action Recognition. , 2018, , .		33
65	A deep learning model and human-machine fusion for prediction of EBV-associated gastric cancer from histopathology. Nature Communications, 2022, 13, 2790.	12.8	31
66	l<inf>2, 1</inf> Regularized correntropy for robust feature selection. , 2012, , .		30
67	Multi-view collaborative locally adaptive clustering with Minkowski metric. Expert Systems With Applications, 2017, 86, 307-320.	7.6	30
68	Learning Person–Person Interaction in Collective Activity Recognition. IEEE Transactions on Image Processing, 2015, 24, 1905-1918.	9.8	29
69	Maximal granularity structure and generalized multi-view discriminant analysis for person re-identification. Pattern Recognition, 2018, 79, 79-96.	8.1	27
70	S3D-CNN: skeleton-based 3D consecutive-low-pooling neural network for fall detection. Applied Intelligence, 2020, 50, 3521-3534.	5.3	27
71	Efficient symmetry-driven fully convolutional network for multimodal brain tumor segmentation. , 2017, , .		26
72	Fast Collective Activity Recognition Under Weak Supervision. IEEE Transactions on Image Processing, 2020, 29, 29-43.	9.8	26

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73	Learning Multi-Attention Context Graph for Group-Based Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 7001-7018.	13.9	26
74	Illumination invariant single face image recognition under heterogeneous lighting condition. Pattern Recognition, 2017, 66, 313-327.	8.1	25
75	Joint adaptive manifold and embedding learning for unsupervised feature selection. Pattern Recognition, 2021, 112, 107742.	8.1	25
76	Exemplar-Based Recognition of Human–Object Interactions. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 647-660.	8.3	24
77	Global-Local Temporal Saliency Action Prediction. IEEE Transactions on Image Processing, 2018, 27, 2272-2285.	9.8	24
78	Face illumination normalization on large and small scale features. , 2008, , .		23
79	Multiple metric learning based on bar-shape descriptor for person re-identification. Pattern Recognition, 2017, 71, 218-234.	8.1	23
80	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.	8.3	23
81	Adversarial Open-World Person Re-Identification. Lecture Notes in Computer Science, 2018, , 287-303.	1.3	23
82	Perturbation LDA: Learning the difference between the class empirical mean and its expectation. Pattern Recognition, 2009, 42, 764-779.	8.1	21
83	Deep asymmetric video-based person re-identification. Pattern Recognition, 2019, 93, 430-441.	8.1	21
84	Graph-based High-order Relation Modeling for Long-term Action Recognition. , 2021, , .		21
85	Action Knowledge Transfer for Action Prediction with Partial Videos. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8118-8125.	4.9	20
86	Enhancing Underexposed Photos Using Perceptually Bidirectional Similarity. IEEE Transactions on Multimedia, 2021, 23, 189-202.	7.2	20
87	Representation Learning for Scene Graph Completion via Jointly Structural and Visual Embedding. , 2018, , .		20
88	Weakly Supervised Discriminative Feature Learning With State Information for Person Identification. , 2020, , .		19
89	Case-based teaching using the Laboratory Animal System for learning C/C++ programming. Computers and Education, 2014, 77, 39-49.	8.3	18
90	Extracting non-negative basis images using pixel dispersion penalty. Pattern Recognition, 2012, 45, 2912-2926.	8.1	17

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91	One-pass online learning: A local approach. Pattern Recognition, 2016, 51, 346-357.	8.1	17
92	DBDNet: Learning Bi-directional Dynamics for Early Action Prediction. , 2019, , .		17
93	Unsupervised Learning for Optical Flow Estimation Using Pyramid Convolution LSTM. , 2019, , .		16
94	One-pass person re-identification by sketch online discriminant analysis. Pattern Recognition, 2019, 93, 237-250.	8.1	16
95	Latent embeddings for collective activity recognition. , 2017, , .		14
96	Euler Clustering on Large-Scale Dataset. IEEE Transactions on Big Data, 2018, 4, 502-515.	6.1	14
97	Transfer re-identification: From person to set-based verification. , 2012, , .		13
98	A facial sparse descriptor for single image based face recognition. Neurocomputing, 2012, 93, 77-87.	5.9	13
99	Discrimination of the behavioural dynamics of visually impaired infants via deep learning. Nature Biomedical Engineering, 2019, 3, 860-869.	22.5	13
100	A Blind Color Separation Model for Faithful Palette-Based Image Recoloring. IEEE Transactions on Multimedia, 2022, 24, 1545-1557.	7.2	13
101	Weakly Supervised Open-Set Domain Adaptation by Dual-Domain Collaboration. , 2019, , .		11
102	Towards Unbiased Covid-19 Lesion Localisation And Segmentation Via Weakly Supervised Learning. , 2021, , .		11
103	Cross-Camera Feature Prediction for Intra-Camera Supervised Person Re-identification across Distant Scenes. , 2021, , .		11
104	Anomaly Detection on Electroencephalography with Self-supervised Learning. , 2020, , .		11
105	Sparse transfer for facial shape-from-shading. Pattern Recognition, 2017, 68, 272-285.	8.1	10
106	PersonRank: Detecting Important People in Images. , 2018, , .		10
107	Letter-Level Online Writer Identification. International Journal of Computer Vision, 2021, 129, 1394-1409.	15.6	10
108	Deep Graph Metric Learning for Weakly Supervised Person Re-Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6074-6093.	13.9	10

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109	Semi-Supervised Action Quality Assessment With Self-Supervised Segment Feature Recovery. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6017-6028.	8.3	10
110	Pedestrian re-Identification Based on Tree Branch Network with Local and Global Learning. , 2019, , .		9
111	Learning to Detect Important People in Unlabelled Images for Semi-Supervised Important People Detection. , 2020, , .		9
112	Deep Camouflage Images. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 12845-12852.	4.9	9
113	Group Association: Assisting Re-identification by Visual Context. , 2014, , 183-201.		9
114	Adaptive Action Assessment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8779-8795.	13.9	9
115	Regularized Locality Preserving Learning of Pre-Image Problem in Kernel Principal Component Analysis. , 2006, , .		8
116	Weakly Supervised Learning on Pre-image Problem in Kernel Methods. , 2006, , .		8
117	Robust spectral regression for face recognition. Neurocomputing, 2013, 118, 33-40.	5.9	8
118	Approximate kernel competitive learning. Neural Networks, 2015, 63, 117-132.	5.9	8
119	Learning an Intrinsic Image Decomposer Using Synthesized RGB-D Dataset. IEEE Signal Processing Letters, 2018, 25, 753-757.	3.6	8
120	Fast Person Search Pipeline. , 2019, , .		8
121	Data Augmentation is More Important Than Model Architectures for Retinal Vessel Segmentation. , 2019, , .		8
122	Distilled Camera-Aware Self Training for Semi-Supervised Person Re-Identification. IEEE Access, 2019, 7, 156752-156763.	4.2	8
123	MIXGAN: Learning Concepts from Different Domains for Mixture Generation. , 2018, , .		8
124	Unsupervised Intrinsic Image Decomposition Using Internal Self-Similarity Cues. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9669-9686.	13.9	8
125	Joint Bilateral-Resolution Identity Modeling for Cross-Resolution Person Re-Identification. International Journal of Computer Vision, 2022, 130, 136-156.	15.6	8
126	TransGrasp: A Multi-Scale Hierarchical Point Transformer for 7-DoF Grasp Detection. , 2022, , .		7

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127	Non-ideal class non-point light source quotient image for face relighting. Signal Processing, 2011, 91, 1048-1053.	3.7	6
128	Efficient and Switchable CNN for Crowd Counting Based on Embedded Terminal. IEEE Access, 2019, 7, 51533-51541.	4.2	6
129	A Decomposition Algorithm for the Sparse Generalized Eigenvalue Problem. , 2019, , .		6
130	Retinal Artery/Vein Classification via Rotation Augmentation and Deeply Supervised U-net Segmentation. , 2019, , .		6
131	Joint regression and learning from pairwise rankings for personalized image aesthetic assessment. Computational Visual Media, 2021, 7, 241-252.	17.5	6
132	Heterogeneous graph driven unsupervised domain adaptation of person re-identification. Neurocomputing, 2022, 471, 1-11.	5.9	6
133	Egocentric Action Recognition by Automatic Relation Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 489-507.	13.9	6
134	Probabilistic Temporal Modeling for Unintentional Action Localization. IEEE Transactions on Image Processing, 2022, 31, 3081-3094.	9.8	6
135	On Constrained Sparse Matrix Factorization. , 2007, , .		5
136	Learning object-specific DAGs for multi-label material recognition. Computer Vision and Image Understanding, 2016, 143, 183-190.	4.7	5
137	Online deep transferable dictionary learning. Pattern Recognition, 2021, 118, 108007.	8.1	5
138	Restoration of a Frontal Illuminated Face Image Based on KPCA. , 2010, , .		4
139	Transductive VIS-NIR face matching. , 2012, , .		4
140	Robust large margin discriminant tangent analysis for face recognition. Neural Computing and Applications, 2012, 21, 269-279.	5.6	4
141	A fast convex conjugated algorithm for sparse recovery. Neurocomputing, 2013, 115, 178-185.	5.9	4
142	Facial skin beautification via sparse representation over learned layer dictionary. , 2016, , .		4
143	GL-PAM RGB-D Gesture Recognition. , 2018, , .		4
144	Joint graph regularized dictionary learning and sparse ranking for multi-modal multi-shot person re-identification. Pattern Recognition, 2020, 104, 107352.	8.1	4

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145	Reducing Impact of Inaccurate User Feedback in Face Retrieval. , 2008, , .		3
146	Face Hallucination Through KPCA. , 2009, , .		3
147	HEp-2 cells staining patterns classification via wavelet scattering network and random forest. , 2015, , .		3
148	Depth-based person re-identification. , 2015, , .		3
149	Weighted Multi-view On-Line Competitive Clustering. , 2016, , .		3
150	Light Person Re-Identification by Multi-Cue Tiny Net. , 2018, , .		3
151	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.	8.3	3
152	Temporal Label Aggregation for Unintentional Action Localization. , 2021, , .		3
153	Semisupervised Feature Learning by Deep Entropy-Sparsity Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 774-788.	11.3	3
154	Kernel Methods for Facial Image Preprocessing. , 2011, , 389-409.		2
155	Towards more reliable matching for person re-identification. , 2015, , .		2
156	HEp-2 specimen classification via deep CNNs and pattern histogram. , 2016, , .		2
157	Online visual tracking via correlation filter with convolutional networks. , 2016, , .		2
158	Affective Video Content Analyses by Using Cross-Modal Embedding Learning Features. , 2019, , .		2
159	Adaptive Interaction Modeling via Graph Operations Search. , 2020, , .		2
160	Part Relational Mean Model for Group Re-Identification. IEEE Access, 2021, 9, 46265-46279.	4.2	2
161	A Novel Approach for Stroke Extraction of Off-Line Chinese Handwritten Characters Based on Optimum Paths. , 2012, , .		1
162	Unsupervised Learning for Forecasting Action Representations. , 2018, , .		1

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163	On large appearance change in visual tracking. Neural Computing and Applications, 2020, 32, 6089-6109.	5.6	1
164	Asymmetric person re-identification: cross-view person tracking in a large camera network. Scientia Sinica Informationis, 2018, 48, 545-563.	0.4	1
165	Learning from Partially Annotated OPT Images by Contextual Relevance Ranking. Lecture Notes in Computer Science, 2013, 16, 429-436.	1.3	1
166	AR-CNN: an attention ranking network for learning urban perception. Science China Information Sciences, 2022, 65, 1.	4.3	1
167	Sketch metric learning. , 2016, , .		0
168	A Matrix Splitting Method for Composite Function Minimization. , 2017, , .		0
169	Learning Intrinsic Image Decomposition by Deep Neural Network with Perceptual Loss. , 2018, , .		0
170	Particle Swarm Loss for Lightweight Object Detection. , 2019, , .		0
171	Semi-supervised Person Re-identification by Attribute Similarity Guidance. , 2021, , .		0
172	Cross-Scene Person Trajectory Anomaly Detection Based on Re-Identification. , 2021, , .		0
173	Linear Dimension Reduction. , 2009, , 899-904.		0
174	Linear Dimension Reduction Techniques. , 2014, , 1-8.		0