Weihong Deng

List of Publications by Year
in descending order

140 papers	7,144 citations	236612 25 h-index	95083 68 g-index
143 all docs	143 docs citations	143 times ranked	4771 citing authors

#	Article	IF	Citations
1	Deep visual domain adaptation: A survey. Neurocomputing, 2018, 312, 135-153.	3.5	1,255
2	Deep Facial Expression Recognition: A Survey. IEEE Transactions on Affective Computing, 2022, 13, 1195-1215.	5.7	603
3	Extended SRC: Undersampled Face Recognition via Intraclass Variant Dictionary. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1864-1870.	9.7	589
4	Reliable Crowdsourcing and Deep Locality-Preserving Learning for Expression Recognition in the Wild. , 2017, , .		564
5	Reliable Crowdsourcing and Deep Locality-Preserving Learning for Unconstrained Facial Expression Recognition. IEEE Transactions on Image Processing, 2019, 28, 356-370.	6.0	392
6	Deep face recognition: A survey. Neurocomputing, 2021, 429, 215-244.	3.5	348
7	Mixed High-Order Attention Network for Person Re-Identification. , 2019, , .		249
8	Racial Faces in the Wild: Reducing Racial Bias by Information Maximization Adaptation Network. , 2019, , .		182
9	Discriminative Multimetric Learning for Kinship Verification. IEEE Transactions on Information Forensics and Security, 2014, 9, 1169-1178.	4.5	178
10	Learning temporal features using LSTM-CNN architecture for face anti-spoofing. , 2015, , .		164
11	In Defense of Sparsity Based Face Recognition. , 2013, , .		118
12	Multi-manifold deep metric learning for image set classification. , 2015, , .		118
13	Face Recognition via Collaborative Representation: Its Discriminant Nature and Superposed Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2513-2521.	9.7	110
14	Robust, accurate and efficient face recognition from a single training image: A uniform pursuit approach. Pattern Recognition, 2010, 43, 1748-1762.	5.1	97
15	Mitigating Bias in Face Recognition Using Skewness-Aware Reinforcement Learning. , 2020, , .		94
16	Representative Forgery Mining for Fake Face Detection. , 2021, , .		87
17	Transform-Invariant PCA: A Unified Approach to Fully Automatic FaceAlignment, Representation, and Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1275-1284.	9.7	86
18	Noisy Softmax: Improving the Generalization Ability of DCNN via Postponing the Early Softmax Saturation. , 2017, , .		84

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19	Unequal-Training for Deep Face Recognition With Long-Tailed Noisy Data. , 2019, , .		81
20	Towards Transferable Adversarial Attack Against Deep Face Recognition. IEEE Transactions on Information Forensics and Security, 2021, 16, 1452-1466.	4.5	70
21	Blended Emotion in-the-Wild: Multi-label Facial Expression Recognition Using Crowdsourced Annotations and Deep Locality Feature Learning. International Journal of Computer Vision, 2019, 127, 884-906.	10.9	68
22	Identity-aware CycleGAN for face photo-sketch synthesis and recognition. Pattern Recognition, 2020, 102, 107249.	5.1	68
23	Unsupervised Face Normalization With Extreme Pose and Expression in the Wild. , 2019, , .		65
24	SFace: Sigmoid-Constrained Hypersphere Loss for Robust Face Recognition. IEEE Transactions on Image Processing, 2021, 30, 2587-2598.	6.0	61
25	Equidistant prototypes embedding for single sample based face recognition with generic learning and incremental learning. Pattern Recognition, 2014, 47, 3738-3749.	5.1	59
26	Fine-grained face verification: FGLFW database, baselines, and human-DCMN partnership. Pattern Recognition, 2017, 66, 63-73.	5.1	59
27	Comments on "Globally Maximizing, Locally Minimizing: Unsupervised Discriminant Projection with Application to Face and Palm Biometrics". IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1503-1504.	9.7	52
28	Reconstruction-Based Metric Learning for Unconstrained Face Verification. IEEE Transactions on Information Forensics and Security, 2015, 10, 79-89.	4.5	51
29	Fair Loss: Margin-Aware Reinforcement Learning for Deep Face Recognition. , 2019, , .		48
30	Global-Local GCN: Large-Scale Label Noise Cleansing for Face Recognition. , 2020, , .		44
31	A Deeper Look at Facial Expression Dataset Bias. IEEE Transactions on Affective Computing, 2022, 13, 881-893.	5.7	44
32	Face Feature Extraction: A Complete Review. IEEE Access, 2018, 6, 6001-6039.	2.6	42
33	Signal-To-Noise Ratio: A Robust Distance Metric for Deep Metric Learning. , 2019, , .		41
34	Hybrid-Attention Based Decoupled Metric Learning for Zero-Shot Image Retrieval. , 2019, , .		39
35	Age Estimation Guided Convolutional Neural Network for Age-Invariant Face Recognition. , 2017, , .		38
36	The small sample size problem of ICA: A comparative study and analysis. Pattern Recognition, 2012, 45, 4438-4450.	5.1	36

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37	Deep Emotion Transfer Network for Cross-database Facial Expression Recognition. , 2018, , .		36
38	Deep face recognition with clustering based domain adaptation. Neurocomputing, 2020, 393, 1-14.	3.5	36
39	Face Recognition Using a Unified 3D Morphable Model. Lecture Notes in Computer Science, 2016, , 73-89.	1.0	30
40	Compressive Binary Patterns: Designing a Robust Binary Face Descriptor with Random-Field Eigenfilters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 758-767.	9.7	30
41	Simultaneous Feature and Dictionary Learning for Image Set Based Face Recognition. Lecture Notes in Computer Science, 2014, , 265-280.	1.0	30
42	APA: Adaptive Pose Alignment for Pose-Invariant Face Recognition. IEEE Access, 2019, 7, 14653-14670.	2.6	28
43	Recurrent convolutional neural network for video classification. , 2016, , .		25
44	Facial landmark localization by enhanced convolutional neural network. Neurocomputing, 2018, 273, 222-229.	3.5	25
45	Triple-GAN: Progressive Face Aging with Triple Translation Loss. , 2020, , .		24
46	Deep Unsupervised Domain Adaptation for Face Recognition. , 2018, , .		23
47	Emulating biological strategies for uncontrolled face recognition. Pattern Recognition, 2010, 43, 2210-2223.	5.1	22
48	Lighting-aware face frontalization for unconstrained face recognition. Pattern Recognition, 2017, 68, 260-271.	5.1	21
49	Gabor-Eigen-Whiten-Cosine: A Robust Scheme for Face Recognition. Lecture Notes in Computer Science, 2005, , 336-349.	1.0	21
50	Detecting Overlapped Objects in X-Ray Security Imagery by a Label-Aware Mechanism. IEEE Transactions on Information Forensics and Security, 2022, 17, 998-1009.	4.5	20
51	Adversarial Learning With Margin-Based Triplet Embedding Regularization. , 2019, , .		19
52	Orthogonality Loss: Learning Discriminative Representations for Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2301-2314.	5.6	19
53	Learning a locality discriminating projection for classification. Knowledge-Based Systems, 2009, 22, 562-568.	4.0	18
54	Energy Confused Adversarial Metric Learning for Zero-Shot Image Retrieval and Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8134-8141.	3.6	18

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55	A high-performance training-free approach for hand gesture recognition with accelerometer. Multimedia Tools and Applications, 2014, 72, 843-864.	2.6	17
56	One-shot deep neural network for pose and illumination normalization face recognition. , 2016, , .		17
57	Compressing Fisher Vector for Robust Face Recognition. IEEE Access, 2017, 5, 23157-23165.	2.6	17
58	Learning Multi-Granularity Temporal Characteristics for Face Anti-Spoofing. IEEE Transactions on Information Forensics and Security, 2022, 17, 1254-1269.	4.5	17
59	Deep Correlation Feature Learning for Face Verification in the Wild. IEEE Signal Processing Letters, 2017, 24, 1877-1881.	2.1	16
60	From one to many: Pose-Aware Metric Learning for single-sample face recognition. Pattern Recognition, 2018, 77, 426-437.	5.1	16
61	Deep embedding learning with adaptive large margin N-pair loss for image retrieval and clustering. Pattern Recognition, 2019, 93, 353-364.	5.1	16
62	Point Adversarial Self-Mining: A Simple Method for Facial Expression Recognition. IEEE Transactions on Cybernetics, 2022, 52, 12649-12660.	6.2	16
63	Generate to Adapt: Resolution Adaption Network for Surveillance Face Recognition. Lecture Notes in Computer Science, 2020, , 741-758.	1.0	16
64	Unsupervised adaptive hashing based on feature clustering. Neurocomputing, 2019, 323, 373-382.	3.5	14
65	Locality preserving and global discriminant projection with prior information. Machine Vision and Applications, 2010, 21, 577-585.	1.7	13
66	Deep Transfer Network with 3D Morphable Models for Face Recognition. , 2018, , .		12
67	Meta Balanced Network for Fair Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	12
68	Local Subclass Constraint for Facial Expression Recognition in the Wild. , 2018, , .		10
69	PropagationNet: Propagate Points to Curve to Learn Structure Information. , 2020, , .		10
70	Face Anti-Spoofing Using Transformers With Relation-Aware Mechanism. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2022, 4, 439-450.	3.8	10
71	Comment on "100% Accuracy in Automatic Face Recognition". Science, 2008, 321, 912-912.	6.0	9
72	Precise eye localization by fast local linear SVM. , 2014, , .		9

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73	Improved community structure discovery algorithm based on combined clique percolation method and K-means algorithm. Peer-to-Peer Networking and Applications, 2020, 13, 2224-2233.	2.6	9
74	Dynamic Training Data Dropout for Robust Deep Face Recognition. IEEE Transactions on Multimedia, 2022, 24, 1186-1197.	5.2	9
75	Unsupervised Structure-Texture Separation Network for Oracle Character Recognition. IEEE Transactions on Image Processing, 2022, 31, 3137-3150.	6.0	9
76	Handwritten Chinese character recognition using Local Discriminant Projection with Prior Information. , 2008, , .		8
77	Deep Difference Analysis in Similar-looking Face recognition. , 2018, , .		8
78	Class-Balanced Training for Deep Face Recognition. , 2020, , .		8
79	Boosting Facial Expression Recognition by A Semi-Supervised Progressive Teacher. IEEE Transactions on Affective Computing, 2023, 14, 2402-2414.	5.7	8
80	Adaptive Label Noise Cleaning with Meta-Supervision for Deep Face Recognition. , 2021, , .		8
81	Locality discriminating indexing for document classification. , 2007, , .		6
82	Learning Local Responses of Facial Landmarks with Conditional Variational Auto-Encoder for Face Alignment. , 2017, , .		6
83	Distortion Minimization Hashing. IEEE Access, 2017, 5, 23425-23435.	2.6	5
84	Cycle label-consistent networks for unsupervised domain adaptation. Neurocomputing, 2021, 422, 186-199.	3.5	5
85	Linear Ranking Analysis. , 2014, , .		4
86	Weakly-supervised deep self-learning for face recognition. , 2016, , .		4
87	Self-restraint object recognition by model based CNN learning. , 2016, , .		4
88	Generative Model With Coordinate Metric Learning for Object Recognition Based on 3D Models. IEEE Transactions on Image Processing, 2018, 27, 5813-5826.	6.0	4
89	Extended Supervised Descent Method for Robust Face Alignment. Lecture Notes in Computer Science, 2015, , 71-84.	1.0	4
90	H-AT: Hybrid Attention Transfer for Knowledge Distillation. Lecture Notes in Computer Science, 2020, , 249-260.	1.0	4

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91	Task Specific Networks for Identity and Face Variation. , 2018, , .		3
92	APA: Adaptive Pose Alignment for Robust Face Recognition. , 2019, , .		3
93	Face Recognition via Compact Fisher Vector. Lecture Notes in Computer Science, 2015, , 68-77.	1.0	3
94	Adaptive Quotient Image with 3D Generic Elastic Models for Pose and Illumination Invariant Face Recognition. Lecture Notes in Computer Science, 2015, , 3-10.	1.0	3
95	Semi-supervised Learning Based on Label Propagation through Submanifold. Lecture Notes in Computer Science, 2009, , 617-623.	1.0	2
96	2D projective transformation based active shape model for facial feature location. , 2011, , .		2
97	Statistical Color Model Based Adult Video Filter. , 2012, , .		2
98	Online Regression of Grandmother-Cell Responses with Visual Experience Learning for Face Recognition. , 2014, , .		2
99	Real-World Facial Expression Recognition Using Metric Learning Method. Lecture Notes in Computer Science, 2016, , 519-527.	1.0	2
100	Cross-Generating GAN for Facial Identity Preserving. , 2018, , .		2
101	Multi-view Correlation based Black-box Adversarial Attack for 3D Object Detection. , 2021, , .		2
102	Locally Rejected Metric Learning Based False Positives Filtering for Face Detection. Lecture Notes in Computer Science, 2016, , 13-21.	1.0	2
103	CNN-Based Age Classification via TransferÂLearning. Lecture Notes in Computer Science, 2017, , 161-168.	1.0	2
104	Constrained Spectral Clustering on Face Annotation System. Communications in Computer and Information Science, 2016, , 3-12.	0.4	2
105	Facial Attractiveness Prediction by Deep Adaptive Label Distribution Learning. Lecture Notes in Computer Science, 2019, , 198-206.	1.0	2
106	Integrative labeling based statistical color models with application to skin detection. , 2012, , .		1
107	Max-K-Min Distance Analysis for Dimension Reduction. , 2014, , .		1
108	Practical pose normalizaiton for pose-invariant face recognition. , 2015, , .		1

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109	Binary matching for high-dimensional image descriptors. , 2015, , .		1
110	Pose-invariant face recognition using 3D multi-depth generic elastic models. , 2015, , .		1
111	Recognizing Compound Emotional Expression in Real-World Using Metric Learning Method. Lecture Notes in Computer Science, 2016, , 528-536.	1.0	1
112	Deep Rank Learning for Facial Attractiveness. , 2017, , .		1
113	AF-Softmax for Face Recognition. , 2018, , .		1
114	Face recognition with compressed Fisher vector on multiscale convolutional features. IET Biometrics, 2018, 7, 447-453.	1.6	1
115	Metric Learning Based False Positives Filtering for Face Detection. Lecture Notes in Computer Science, 2015, , 60-67.	1.0	1
116	FIE-GAN: Illumination Enhancement Network for Face Recognition. Lecture Notes in Computer Science, 2021, , 214-225.	1.0	1
117	LWFD: A Simple Light-Weight Network for Face Detection. Lecture Notes in Computer Science, 2019, , 207-215.	1.0	1
118	Confusion-Based Metric Learning for Regularizing Zero-Shot Image Retrieval and Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1884-1897.	7.2	1
119	Dual Gaussian Modeling for Deep Face Embeddings. Pattern Recognition Letters, 2022, 161, 74-81.	2.6	1
120	A Computationally Efficient Algorithm for Building Statistical Color Models. , 2012, , .		0
121	Face recognition based on random feature. , 2015, , .		0
122	Simultaneous blurred face restoration and recognition. , 2015, , .		0
123	Adaptive LPQ: An efficient descriptor for blurred face recognition. , 2015, , .		0
124	Geometry-aware metric learning for similar face recognition. , 2016, , .		0
125	Robust Supervised Hashing. Communications in Computer and Information Science, 2016, , 574-585.	0.4	0
126	Intensity Estimation of the Real-World Facial Expression. Communications in Computer and Information Science, 2016, , 79-92.	0.4	0

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127	Pose Aided Deep Convolutional Neural Networks for Face Alignment. Lecture Notes in Computer Science, 2016, , 59-67.	1.0	0
128	Regularization techniques for high-dimensional data analysis. Image and Vision Computing, 2017, 60, 1-3.	2.7	0
129	Facial Expression Intensity Estimation Based on CNN Features and RankBoost. , 2017, , .		0
130	RAF-AU Database: In-the-Wild Facial Expressions with Subjective Emotion Judgement and Objective AU Annotations. Lecture Notes in Computer Science, 2021, , 68-82.	1.0	0
131	Evaluation of Smile Detection Methods with Images in Real-World Scenarios. Lecture Notes in Computer Science, 2015, , 166-179.	1.0	0
132	Blur-Robust Face Recognition via Transformation Learning. Lecture Notes in Computer Science, 2015, , 15-29.	1.0	0
133	Face Recognition Using Local PCA Filters. Lecture Notes in Computer Science, 2015, , 35-42.	1.0	0
134	Saliency Region Detection via Graph Model and Statistical Learning. Communications in Computer and Information Science, 2016, , 3-13.	0.4	0
135	Rank Beauty. Communications in Computer and Information Science, 2016, , 173-181.	0.4	0
136	Illumination-Recovered Pose Normalization for Unconstrained Face Recognition. Lecture Notes in Computer Science, 2017, , 217-233.	1.0	0
137	Learning Facial Point Response for Alignment by Purely Convolutional Network. Lecture Notes in Computer Science, 2017, , 248-263.	1.0	0
138	AdaptiveNet: Toward an Efficient Face Alignment Algorithm. Lecture Notes in Computer Science, 2019, , 171-179.	1.0	0
139	Transferring Discriminative Knowledge via Connective Momentum Clustering on Person Re-identification. Pattern Recognition, 2022, , 108569.	5.1	0
140	Adaptive Face Recognition Using Adversarial Information Network. IEEE Transactions on Image Processing, 2022, 31, 4909-4921.	6.0	0