

Stefanos P Zafeiriou

List of Publications by Year in descending order

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153
papers

13,225
citations

94381

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156
all docs

156
docs citations

156
times ranked

6512
citing authors

#	ARTICLE	IF	CITATIONS
1	ArcFace: Additive Angular Margin Loss for Deep Face Recognition. , 2019, , .		2,944
2	300 Faces in-the-Wild Challenge: The First Facial Landmark Localization Challenge. , 2013, , .		719
3	300 Faces In-The-Wild Challenge: database and results. Image and Vision Computing, 2016, 47, 3-18.	2.7	520
4	End-to-End Multimodal Emotion Recognition Using Deep Neural Networks. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1301-1309.	7.3	431
5	Robust Discriminative Response Map Fitting with Constrained Local Models. , 2013, , .		397
6	AgeDB: The First Manually Collected, In-the-Wild Age Database. , 2017, , .		361
7	A survey on face detection in the wild: Past, present and future. Computer Vision and Image Understanding, 2015, 138, 1-24.	3.0	324
8	Static and dynamic 3D facial expression recognition: A comprehensive survey. Image and Vision Computing, 2012, 30, 683-697.	2.7	312
9	Incremental Face Alignment in the Wild. , 2014, , .		308
10	Exploiting discriminant information in nonnegative matrix factorization with application to frontal face verification. IEEE Transactions on Neural Networks, 2006, 17, 683-695.	4.8	285
11	A Semi-automatic Methodology for Facial Landmark Annotation. , 2013, , .		261
12	A Deep Matrix Factorization Method for Learning Attribute Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 417-429.	9.7	236
13	Mnemonic Descent Method: A Recurrent Process Applied for End-to-End Face Alignment. , 2016, , .		226
14	GANFIT: Generative Adversarial Network Fitting for High Fidelity 3D Face Reconstruction. , 2019, , .		225
15	The First Facial Landmark Tracking in-the-Wild Challenge: Benchmark and Results. , 2015, , .		214
16	A 3D Morphable Model Learnt from 10,000 Faces. , 2016, , .		211
17	Large Scale 3D Morphable Models. International Journal of Computer Vision, 2018, 126, 233-254.	10.9	210
18	Subspace Learning from Image Gradient Orientations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 2454-2466.	9.7	196

#	ARTICLE	IF	CITATIONS
19	Deep Affect Prediction in-the-Wild: Aff-Wild Database and Challenge, Deep Architectures, and Beyond. International Journal of Computer Vision, 2019, 127, 907-929.	10.9	193
20	Aff-Wild: Valence and Arousal "In-the-Wild" Challenge. , 2017, , .		161
21	Marginal Loss for Deep Face Recognition. , 2017, , .		143
22	LIV-GAN: Adversarial Facial UV Map Completion for Pose-Invariant Face Recognition. , 2018, , .		135
23	Robust FFT-Based Scale-Invariant Image Registration with Image Gradients. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1899-1906.	9.7	127
24	ArcFace: Additive Angular Margin Loss for Deep Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 5962-5979.	9.7	120
25	Blind Robust Watermarking Schemes for Copyright Protection of 3D Mesh Objects. IEEE Transactions on Visualization and Computer Graphics, 2005, 11, 596-607.	2.9	118
26	3D Face Morphable Models "In-the-Wild". , 2017, , .		109
27	AvatarMe: Realistically Renderable 3D Facial Reconstruction "In-the-Wild", , 2020, , .		104
28	The Menpo Facial Landmark Localisation Challenge: A Step Towards the Solution. , 2017, , .		92
29	Neural 3D Morphable Models: Spiral Convolutional Networks for 3D Shape Representation Learning and Generation. , 2019, , .		92
30	Recognition of 3D facial expression dynamics. Image and Vision Computing, 2012, 30, 762-773.	2.7	91
31	Analysing Affective Behavior in the First ABAW 2020 Competition. , 2020, , .		91
32	A Novel Discriminant Non-Negative Matrix Factorization Algorithm With Applications to Facial Image Characterization Problems. IEEE Transactions on Information Forensics and Security, 2007, 2, 588-595.	4.5	89
33	Texture and shape information fusion for facial expression and facial action unit recognition. Pattern Recognition, 2008, 41, 833-851.	5.1	89
34	Robust Statistical Face Frontalization. , 2015, , .		81
35	SpiralNet++: A Fast and Highly Efficient Mesh Convolution Operator. , 2019, , .		80
36	A Comprehensive Performance Evaluation of Deformable Face Tracking "In-the-Wild". International Journal of Computer Vision, 2018, 126, 198-232.	10.9	79

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37	Exploiting Multi-CNN Features in CNN-RNN Based Dimensional Emotion Recognition on the OMG in-the-Wild Dataset. IEEE Transactions on Affective Computing, 2021, 12, 595-606.	5.7	79
38	Feature-Based Lucas-Kanade and Active Appearance Models. IEEE Transactions on Image Processing, 2015, 24, 2617-2632.	6.0	78
39	Euler Principal Component Analysis. International Journal of Computer Vision, 2013, 101, 498-518.	10.9	76
40	Analysing Affective Behavior in the second ABAW2 Competition. , 2021, , .		76
41	Offline Deformable Face Tracking in Arbitrary Videos. , 2015, , .		75
42	Minimum Class Variance Support Vector Machines. IEEE Transactions on Image Processing, 2007, 16, 2551-2564.	6.0	73
43	Recognition of Affect in the Wild Using Deep Neural Networks. , 2017, , .		67
44	Deep Neural Network Augmentation: Generating Faces for Affect Analysis. International Journal of Computer Vision, 2020, 128, 1455-1484.	10.9	67
45	Nonlinear Non-Negative Component Analysis Algorithms. IEEE Transactions on Image Processing, 2010, 19, 1050-1066.	6.0	64
46	4DFAB: A Large Scale 4D Database for Facial Expression Analysis and Biometric Applications. , 2018, , .		64
47	Non-Negative Matrix Factorizations for Multiplex Network Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 928-940.	9.7	63
48	Menpo. , 2014, , .		61
49	Regularized Kernel Discriminant Analysis With a Robust Kernel for Face Recognition and Verification. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 526-534.	7.2	55
50	A machine learning framework for automated diagnosis and computer-assisted planning in plastic and reconstructive surgery. Scientific Reports, 2019, 9, 13597.	1.6	55
51	Joint Multi-View Face Alignment in the Wild. IEEE Transactions on Image Processing, 2019, 28, 3636-3648.	6.0	55
52	The Menpo Benchmark for Multi-pose 2D and 3D Facial Landmark Localisation and Tracking. International Journal of Computer Vision, 2019, 127, 599-624.	10.9	54
53	Tensor Methods in Computer Vision and Deep Learning. Proceedings of the IEEE, 2021, 109, 863-890.	16.4	53
54	Efficient Online Subspace Learning With an Indefinite Kernel for Visual Tracking and Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1624-1636.	7.2	52

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55	Combining 3D Morphable Models: A Large Scale Face-And-Head Model. , 2019, , .		50
56	Discriminant Nonnegative Tensor Factorization Algorithms. IEEE Transactions on Neural Networks, 2009, 20, 217-235.	4.8	48
57	Class-Specific Kernel-Discriminant Analysis for Face Verification. IEEE Transactions on Information Forensics and Security, 2007, 2, 570-587.	4.5	47
58	Towards a Complete 3D Morphable Model of the Human Head. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4142-4160.	9.7	47
59	End-to-end multimodal affect recognition in real-world environments. Information Fusion, 2021, 68, 46-53.	11.7	44
60	Discriminant Graph Structures for Facial Expression Recognition. IEEE Transactions on Multimedia, 2008, 10, 1528-1540.	5.2	43
61	Principal Component Analysis With Complex Kernel: The Widely Linear Model. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1719-1726.	7.2	42
62	Statistical non-rigid ICP algorithm and its application to 3D face alignment. Image and Vision Computing, 2017, 58, 3-12.	2.7	41
63	3D Reconstruction of "In-the-Wild" Faces in Images and Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2638-2652.	9.7	41
64	Face Recognition and Verification Using Photometric Stereo: The Photoface Database and a Comprehensive Evaluation. IEEE Transactions on Information Forensics and Security, 2013, 8, 121-135.	4.5	36
65	Robust Correlated and Individual Component Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1665-1678.	9.7	36
66	HeadGAN: One-shot Neural Head Synthesis and Editing. , 2021, , .		36
67	From Pixels to Response Maps: Discriminative Image Filtering for Face Alignment in the Wild. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1312-1320.	9.7	35
68	Sparse representations for facial expressions recognition via l_1 optimization. , 2010, , .		32
69	Facial Affect "In-the-Wild": A Survey and a New Database. , 2016, , .		32
70	RAPS: Robust and Efficient Automatic Construction of Person-Specific Deformable Models. , 2014, , .		31
71	Fast-GANFIT: Generative Adversarial Network for High Fidelity 3D Face Reconstruction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	31
72	Bayesian Active Appearance Models. , 2014, , .		30

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73	3DFaceGAN: Adversarial Nets for 3D Face Representation, Generation, and Translation. International Journal of Computer Vision, 2020, 128, 2534-2551.	10.9	30
74	Head2Head: Video-based Neural Head Synthesis. , 2020, , .		30
75	HOG active appearance models. , 2014, , .		28
76	Deep Face Deblurring. , 2017, , .		27
77	Head2Head++: Deep Facial Attributes Re-Targeting. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 31-43.	3.8	26
78	OSTeC: One-Shot Texture Completion. , 2021, , .		26
79	AvatarMe ⁺⁺ : Facial Shape and BRDF Inference With Photorealistic Rendering-Aware GANs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9269-9284.	9.7	26
80	Online Kernel Slow Feature Analysis for Temporal Video Segmentation and Tracking. IEEE Transactions on Image Processing, 2015, 24, 2955-2970.	6.0	25
81	Synthesizing Coupled 3D Face Modalities by Trunk-Branch Generative Adversarial Networks. Lecture Notes in Computer Science, 2020, , 415-433.	1.0	24
82	Active Pictorial Structures. , 2015, , .		23
83	Optimal UV spaces for facial morphable model construction. , 2014, , .		22
84	Motion Deblurring of Faces. International Journal of Computer Vision, 2019, 127, 801-823.	10.9	22
85	Pâ€nets: Deep Polynomial Neural Networks. , 2020, , .		22
86	Robust Statistical Frontalization of Human and Animal Faces. International Journal of Computer Vision, 2017, 122, 270-291.	10.9	21
87	Deep Polynomial Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	19
88	A Unified Framework for Compositional Fitting of Active Appearance Models. International Journal of Computer Vision, 2017, 121, 26-64.	10.9	18
89	Learning Discriminant Person-Specific Facial Models Using Expandable Graphs. IEEE Transactions on Information Forensics and Security, 2007, 2, 55-68.	4.5	17
90	Automatic construction Of robust spherical harmonic subspaces. , 2015, , .		17

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91	Side Information for Face Completion: A Robust PCA Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2349-2364.	9.7	17
92	Robust Kronecker Component Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2365-2379.	9.7	17
93	Active Orientation Models for Face Alignment In-the-Wild. IEEE Transactions on Information Forensics and Security, 2014, 9, 2024-2034.	4.5	16
94	Training Deep Neural Networks with Different Datasets In-the-wild: The Emotion Recognition Paradigm. , 2018, , .		16
95	An Adversarial Neuro-Tensorial Approach for Learning Disentangled Representations. International Journal of Computer Vision, 2019, 127, 743-762.	10.9	16
96	The discriminant elastic graph matching algorithm applied to frontal face verification. Pattern Recognition, 2007, 40, 2798-2810.	5.1	15
97	Nonnegative tensor factorization as an alternative Csiszarâ€Tusnady procedure: algorithms, convergence, probabilistic interpretations and novel probabilistic tensor latent variable analysis algorithms. Data Mining and Knowledge Discovery, 2011, 22, 419-466.	2.4	15
98	Unifying holistic and Parts-Based Deformable Model fitting. , 2015, , .		15
99	SliderGAN: Synthesizing Expressive Face Images by Sliding 3D Blendshape Parameters. International Journal of Computer Vision, 2020, 128, 2629-2650.	10.9	15
100	RoCGAN: Robust Conditional GAN. International Journal of Computer Vision, 2020, 128, 2665-2683.	10.9	14
101	High order pLSA for indexing tagged images. Signal Processing, 2013, 93, 2212-2228.	2.1	13
102	Correlated-spaces regression for learning continuous emotion dimensions. , 2013, , .		13
103	VA-StarGAN: Continuous Affect Generation. Lecture Notes in Computer Science, 2020, , 227-238.	1.0	13
104	Learning the Multilinear Structure of Visual Data. , 2017, , .		12
105	Photorealistic Facial Synthesis in the Dimensional Affect Space. Lecture Notes in Computer Science, 2019, , 475-491.	1.0	12
106	Shape My Face: Registering 3D Face Scans by Surface-to-Surface Translation. International Journal of Computer Vision, 2021, 129, 2680-2713.	10.9	12
107	4DME: A Spontaneous 4D Micro-Expression Dataset With Multimodalities. IEEE Transactions on Affective Computing, 2023, 14, 3031-3047.	5.7	12
108	Automatic Construction of Deformable Models In-the-Wild. , 2014, , .		11

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109	Single-Stage Joint Face Detection and Alignment. , 2019, , .		11
110	Geometrically Principled Connections in Graph Neural Networks. , 2020, , .		11
111	Recovering Joint and Individual Components in Facial Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2668-2681.	9.7	10
112	Real-world automatic continuous affect recognition from audiovisual signals. , 2019, , 387-406.		10
113	Algorithms for Nonnegative Tensor Factorization. Advances in Pattern Recognition, 2009, , 105-124.	0.8	10
114	Exploiting discriminant information in elastic graph matching. , 2005, , .		9
115	Robust Kronecker-Decomposable Component Analysis for Low-Rank Modeling. , 2017, , .		9
116	Disentangling the Modes of Variation in Unlabelled Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2682-2695.	9.7	9
117	Time-series Clustering with Jointly Learning Deep Representations, Clusters and Temporal Boundaries. , 2019, , .		9
118	2.5D Elastic graph matching. Computer Vision and Image Understanding, 2011, 115, 1062-1072.	3.0	8
119	Face Flow. , 2015, , .		8
120	Multi-Attribute Robust Component Analysis for Facial UV Maps. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1324-1337.	7.3	8
121	Learning to Generate Customized Dynamic 3D Facial Expressions. Lecture Notes in Computer Science, 2020, , 278-294.	1.0	8
122	Slow features nonnegative matrix factorization for temporal data decomposition. , 2014, , .		7
123	A robust similarity measure for volumetric image registration with outliers. Image and Vision Computing, 2016, 52, 97-113.	2.7	7
124	Robust low-rank tensor modelling using Tucker and CP decomposition. , 2017, , .		7
125	Speech Emotion Recognition Using Semantic Information. , 2021, , .		7
126	Incremental Slow Feature Analysis with Indefinite Kernel for Online Temporal Video Segmentation. Lecture Notes in Computer Science, 2013, , 162-176.	1.0	7

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127	Synthesising 3D Facial Motion from "In-the-Wild" Speech. , 2020, , .		7
128	Generalised Scalable Robust Principal Component Analysis. , 2014, , .		7
129	Guest Editorial: Non-Euclidean Machine Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 723-726.	9.7	7
130	Active nonrigid ICP algorithm. , 2015, , .		6
131	DeepFaceFlow: In-the-Wild Dense 3D Facial Motion Estimation. , 2020, , .		6
132	Convolutional mesh autoencoders for the 3-dimensional identification of FGFR-related craniosynostosis. Scientific Reports, 2022, 12, 2230.	1.6	6
133	Estimating Correspondences of Deformable Objects "In-the-Wild", 2016, , .		5
134	Adaptive cascaded regression. , 2016, , .		5
135	Side Information in Robust Principal Component Analysis: Algorithms and Applications. , 2017, , .		5
136	PD ² T: Person-Specific Detection, Deformable Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2555-2568.	9.7	5
137	Special Issue on Machine Vision. International Journal of Computer Vision, 2019, 127, 1611-1613.	10.9	5
138	Facial Expression Synthesis using a Global-Local Multilinear Framework. Computer Graphics Forum, 2020, 39, 235-245.	1.8	5
139	A Unified Framework for Probabilistic Component Analysis. Lecture Notes in Computer Science, 2014, , 469-484.	1.0	5
140	Nonlinear Nonnegative Component Analysis. , 2009, , .		4
141	Online learning and fusion of orientation appearance models for robust rigid object tracking. Image and Vision Computing, 2014, 32, 707-727.	2.7	4
142	Facial Actions as Social Signals. , 2017, , 123-154.		4
143	AutoHash: Learning Higher-order Feature Interactions for Deep CTR Prediction. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	4
144	EDFace-Celeb-1 M: Benchmarking Face Hallucination With a Million-Scale Dataset. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 3968-3978.	9.7	4

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145	Full-Angle Quaternions for Robustly Matching Vectors of 3D Rotations. , 2014, , .		3
146	Deep and Deformable: Convolutional Mixtures of Deformable Part-Based Models. , 2018, , .		3
147	Editorial of Special Issue on Human Behaviour Analysis “In-the-Wild”: IEEE Transactions on Affective Computing, 2019, 10, 4-6.	5.7	3
148	IPST: Incremental Pictorial Structures for Model-Free Tracking of Deformable Objects. IEEE Transactions on Image Processing, 2018, 27, 3529-3540.	6.0	2
149	Nonnegative Decompositions for Dynamic Visual Data Analysis. IEEE Transactions on Image Processing, 2017, 26, 5603-5617.	6.0	1
150	Improve Accurate Pose Alignment and Action Localization by Dense Pose Estimation. , 2018, , .		1
151	Growth patterns and shape development of the paediatric mandible “ A 3D statistical model. Bone Reports, 2022, 16, 101528.	0.2	1
152	Reparameterising 3D Statistical Shape Models. , 2019, , .		0
153	Nonlinear Nonnegative Component Analysis. , 2009, , .		0