

Stefanos P Zafeiriou

List of Publications by Year in descending order

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153
papers

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citations

94381

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156
all docs

156
docs citations

156
times ranked

6512
citing authors

#	ARTICLE	IF	CITATIONS
1	4DME: A Spontaneous 4D Micro-Expression Dataset With Multimodalities. IEEE Transactions on Affective Computing, 2023, 14, 3031-3047.	5.7	12
2	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
3	ArcFace: Additive Angular Margin Loss for Deep Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 5962-5979.	9.7	120
4	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
5	Guest Editorial: Non-Euclidean Machine Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 723-726.	9.7	7
6	Convolutional mesh autoencoders for the 3-dimensional identification of FGFR-related craniosynostosis. Scientific Reports, 2022, 12, 2230.	1.6	6
7	Growth patterns and shape development of the paediatric mandible – A 3D statistical model. Bone Reports, 2022, 16, 101528.	0.2	1
8	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
9	End-to-end multimodal affect recognition in real-world environments. Information Fusion, 2021, 68, 46-53.	11.7	44
10	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
11	Head2Head ⁺⁺ : Deep Facial Attributes Re-Targeting. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 31-43.	3.8	26
12	Deep Polynomial Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	19
13	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
14	Tensor Methods in Computer Vision and Deep Learning. Proceedings of the IEEE, 2021, 109, 863-890.	16.4	53
15	Speech Emotion Recognition Using Semantic Information. , 2021, , .		7
16	Shape My Face: Registering 3D Face Scans by Surface-to-Surface Translation. International Journal of Computer Vision, 2021, 129, 2680-2713.	10.9	12
17	OSTeC: One-Shot Texture Completion. , 2021, , .		26
18	Analysing Affective Behavior in the second ABAW2 Competition. , 2021, , .		76

#	ARTICLE	IF	CITATIONS
19	HeadGAN: One-shot Neural Head Synthesis and Editing. , 2021, , .		36
20	Facial Expression Synthesis using a Globalâ€¦Local Multilinear Framework. Computer Graphics Forum, 2020, 39, 235-245.	1.8	5
21	RoCGAN: Robust Conditional GAN. International Journal of Computer Vision, 2020, 128, 2665-2683.	10.9	14
22	AvatarMe: Realistically Renderable 3D Facial Reconstruction â€œIn-the-Wildâ€• , 2020, , .		104
23	AutoHash: Learning Higher-order Feature Interactions for Deep CTR Prediction. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	4
24	DeepFaceFlow: In-the-Wild Dense 3D Facial Motion Estimation. , 2020, , .		6
25	Pâ€œnets: Deep Polynomial Neural Networks. , 2020, , .		22
26	Geometrically Principled Connections in Graph Neural Networks. , 2020, , .		11
27	3DFaceGAN: Adversarial Nets for 3D Face Representation, Generation, and Translation. International Journal of Computer Vision, 2020, 128, 2534-2551.	10.9	30
28	SliderGAN: Synthesizing Expressive Face Images by Sliding 3D Blendshape Parameters. International Journal of Computer Vision, 2020, 128, 2629-2650.	10.9	15
29	Deep Neural Network Augmentation: Generating Faces for Affect Analysis. International Journal of Computer Vision, 2020, 128, 1455-1484.	10.9	67
30	Synthesizing Coupled 3D Face Modalities by Trunk-Branch Generative Adversarial Networks. Lecture Notes in Computer Science, 2020, , 415-433.	1.0	24
31	Head2Head: Video-based Neural Head Synthesis. , 2020, , .		30
32	Synthesising 3D Facial Motion from â€œIn-the-Wildâ€•Speech. , 2020, , .		7
33	Analysing Affective Behavior in the First ABAW 2020 Competition. , 2020, , .		91
34	VA-StarGAN: Continuous Affect Generation. Lecture Notes in Computer Science, 2020, , 227-238.	1.0	13
35	Learning to Generate Customized Dynamic 3D Facial Expressions. Lecture Notes in Computer Science, 2020, , 278-294.	1.0	8
36	Reparameterising 3D Statistical Shape Models. , 2019, , .		0

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37	Time-series Clustering with Jointly Learning Deep Representations, Clusters and Temporal Boundaries. , 2019, , .		9
38	Special Issue on Machine Vision. International Journal of Computer Vision, 2019, 127, 1611-1613.	10.9	5
39	A machine learning framework for automated diagnosis and computer-assisted planning in plastic and reconstructive surgery. Scientific Reports, 2019, 9, 13597.	1.6	55
40	Motion Deblurring of Faces. International Journal of Computer Vision, 2019, 127, 801-823.	10.9	22
41	Side Information for Face Completion: A Robust PCA Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2349-2364.	9.7	17
42	Editorial of Special Issue on Human Behaviour Analysis â€œIn-the-Wildâ€œ: IEEE Transactions on Affective Computing, 2019, 10, 4-6.	5.7	3
43	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
44	An Adversarial Neuro-Tensorial Approach for Learning Disentangled Representations. International Journal of Computer Vision, 2019, 127, 743-762.	10.9	16
45	Photorealistic Facial Synthesis in the Dimensional Affect Space. Lecture Notes in Computer Science, 2019, , 475-491.	1.0	12
46	Joint Multi-View Face Alignment in the Wild. IEEE Transactions on Image Processing, 2019, 28, 3636-3648.	6.0	55
47	Single-Stage Joint Face Detection and Alignment. , 2019, , .		11
48	GANFIT: Generative Adversarial Network Fitting for High Fidelity 3D Face Reconstruction. , 2019, , .		225
49	SpiralNet++: A Fast and Highly Efficient Mesh Convolution Operator. , 2019, , .		80
50	ArcFace: Additive Angular Margin Loss for Deep Face Recognition. , 2019, , .		2,944
51	Combining 3D Morphable Models: A Large Scale Face-And-Head Model. , 2019, , .		50
52	Neural 3D Morphable Models: Spiral Convolutional Networks for 3D Shape Representation Learning and Generation. , 2019, , .		92
53	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
54	Real-world automatic continuous affect recognition from audiovisual signals. , 2019, , 387-406.		10

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55	Robust Kronecker Component Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2365-2379.	9.7	17
56	Non-Negative Matrix Factorizations for Multiplex Network Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 928-940.	9.7	63
57	PD ² T: Person-Specific Detection, Deformable Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2555-2568.	9.7	5
58	Disentangling the Modes of Variation in Unlabelled Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2682-2695.	9.7	9
59	Recovering Joint and Individual Components in Facial Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2668-2681.	9.7	10
60	IPST: Incremental Pictorial Structures for Model-Free Tracking of Deformable Objects. IEEE Transactions on Image Processing, 2018, 27, 3529-3540.	6.0	2
61	Large Scale 3D Morphable Models. International Journal of Computer Vision, 2018, 126, 233-254.	10.9	210
62	A Comprehensive Performance Evaluation of Deformable Face Tracking <i>in-the-Wild</i> . International Journal of Computer Vision, 2018, 126, 198-232.	10.9	79
63	UV-GAN: Adversarial Facial UV Map Completion for Pose-Invariant Face Recognition. , 2018, , .		135
64	4DFAB: A Large Scale 4D Database for Facial Expression Analysis and Biometric Applications. , 2018, , .		64
65	Multi-Attribute Robust Component Analysis for Facial UV Maps. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1324-1337.	7.3	8
66	Training Deep Neural Networks with Different Datasets In-the-wild: The Emotion Recognition Paradigm. , 2018, , .		16
67	3D Reconstruction of <i>in-the-Wild</i> Faces in Images and Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2638-2652.	9.7	41
68	Deep and Deformable: Convolutional Mixtures of Deformable Part-Based Models. , 2018, , .		3
69	Improve Accurate Pose Alignment and Action Localization by Dense Pose Estimation. , 2018, , .		1
70	A Unified Framework for Compositional Fitting of Active Appearance Models. International Journal of Computer Vision, 2017, 121, 26-64.	10.9	18
71	A Deep Matrix Factorization Method for Learning Attribute Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 417-429.	9.7	236
72	Statistical non-rigid ICP algorithm and its application to 3D face alignment. Image and Vision Computing, 2017, 58, 3-12.	2.7	41

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73	Recognition of Affect in the Wild Using Deep Neural Networks. , 2017, , .		67
74	Aff-Wild: Valence and Arousal "In-the-Wild" Challenge. , 2017, , .		161
75	Marginal Loss for Deep Face Recognition. , 2017, , .		143
76	The Menpo Facial Landmark Localisation Challenge: A Step Towards the Solution. , 2017, , .		92
77	Deep Face Deblurring. , 2017, , .		27
78	Nonnegative Decompositions for Dynamic Visual Data Analysis. IEEE Transactions on Image Processing, 2017, 26, 5603-5617.	6.0	1
79	Robust Statistical Frontalization of Human and Animal Faces. International Journal of Computer Vision, 2017, 122, 270-291.	10.9	21
80	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
81	AgeDB: The First Manually Collected, In-the-Wild Age Database. , 2017, , .		361
82	Side Information in Robust Principal Component Analysis: Algorithms and Applications. , 2017, , .		5
83	Robust Kronecker-Decomposable Component Analysis for Low-Rank Modeling. , 2017, , .		9
84	3D Face Morphable Models "In-the-Wild". , 2017, , .		109
85	Learning the Multilinear Structure of Visual Data. , 2017, , .		12
86	Robust low-rank tensor modelling using Tucker and CP decomposition. , 2017, , .		7
87	Facial Actions as Social Signals. , 2017, , 123-154.		4
88	Facial Affect "In-the-Wild": A Survey and a New Database. , 2016, , .		32
89	A 3D Morphable Model Learnt from 10,000 Faces. , 2016, , .		211
90	Mnemonic Descent Method: A Recurrent Process Applied for End-to-End Face Alignment. , 2016, , .		226

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91	300 Faces In-The-Wild Challenge: database and results. Image and Vision Computing, 2016, 47, 3-18.	2.7	520
92	Estimating Correspondences of Deformable Objects in-the-Wild, 2016, , .		5
93	Adaptive cascaded regression. , 2016, , .		5
94	A robust similarity measure for volumetric image registration with outliers. Image and Vision Computing, 2016, 52, 97-113.	2.7	7
95	Robust Correlated and Individual Component Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1665-1678.	9.7	36
96	Face Flow. , 2015, , .		8
97	Active Pictorial Structures. , 2015, , .		23
98	Online Kernel Slow Feature Analysis for Temporal Video Segmentation and Tracking. IEEE Transactions on Image Processing, 2015, 24, 2955-2970.	6.0	25
99	Offline Deformable Face Tracking in Arbitrary Videos. , 2015, , .		75
100	The First Facial Landmark Tracking in-the-Wild Challenge: Benchmark and Results. , 2015, , .		214
101	Automatic construction Of robust spherical harmonic subspaces. , 2015, , .		17
102	Robust Statistical Face Frontalization. , 2015, , .		81
103	Active nonrigid ICP algorithm. , 2015, , .		6
104	Unifying holistic and Parts-Based Deformable Model fitting. , 2015, , .		15
105	A survey on face detection in the wild: Past, present and future. Computer Vision and Image Understanding, 2015, 138, 1-24.	3.0	324
106	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
107	Feature-Based Lucas-Kanade and Active Appearance Models. IEEE Transactions on Image Processing, 2015, 24, 2617-2632.	6.0	78
108	Optimal UV spaces for facial morphable model construction. , 2014, , .		22

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109	HOG active appearance models. , 2014, , .		28
110	Slow features nonnegative matrix factorization for temporal data decomposition. , 2014, , .		7
111	Bayesian Active Appearance Models. , 2014, , .		30
112	Full-Angle Quaternions for Robustly Matching Vectors of 3D Rotations. , 2014, , .		3
113	Menpo. , 2014, , .		61
114	RAPS: Robust and Efficient Automatic Construction of Person-Specific Deformable Models. , 2014, , .		31
115	Active Orientation Models for Face Alignment In-the-Wild. IEEE Transactions on Information Forensics and Security, 2014, 9, 2024-2034.	4.5	16
116	Incremental Face Alignment in the Wild. , 2014, , .		308
117	Automatic Construction of Deformable Models In-the-Wild. , 2014, , .		11
118	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
119	Online learning and fusion of orientation appearance models for robust rigid object tracking. Image and Vision Computing, 2014, 32, 707-727.	2.7	4
120	A Unified Framework for Probabilistic Component Analysis. Lecture Notes in Computer Science, 2014, , 469-484.	1.0	5
121	Generalised Scalable Robust Principal Component Analysis. , 2014, , .		7
122	A Semi-automatic Methodology for Facial Landmark Annotation. , 2013, , .		261
123	Euler Principal Component Analysis. International Journal of Computer Vision, 2013, 101, 498-518.	10.9	76
124	High order pLSA for indexing tagged images. Signal Processing, 2013, 93, 2212-2228.	2.1	13
125	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
126	Correlated-spaces regression for learning continuous emotion dimensions. , 2013, , .		13

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127	300 Faces in-the-Wild Challenge: The First Facial Landmark Localization Challenge. , 2013, , .		719
128	Robust Discriminative Response Map Fitting with Constrained Local Models. , 2013, , .		397
129	Incremental Slow Feature Analysis with Indefinite Kernel for Online Temporal Video Segmentation. Lecture Notes in Computer Science, 2013, , 162-176.	1.0	7
130	Subspace Learning from Image Gradient Orientations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 2454-2466.	9.7	196
131	Recognition of 3D facial expression dynamics. Image and Vision Computing, 2012, 30, 762-773.	2.7	91
132	Static and dynamic 3D facial expression recognition: A comprehensive survey. Image and Vision Computing, 2012, 30, 683-697.	2.7	312
133	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
134	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
135	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
136	2.5D Elastic graph matching. Computer Vision and Image Understanding, 2011, 115, 1062-1072.	3.0	8
137	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
138	Nonlinear Non-Negative Component Analysis Algorithms. IEEE Transactions on Image Processing, 2010, 19, 1050-1066.	6.0	64
139	Sparse representations for facial expressions recognition via l_1/l_1 optimization. , 2010, , .		32
140	Nonlinear Nonnegative Component Analysis. , 2009, , .		4
141	Discriminant Nonnegative Tensor Factorization Algorithms. IEEE Transactions on Neural Networks, 2009, 20, 217-235.	4.8	48
142	Algorithms for Nonnegative Tensor Factorization. Advances in Pattern Recognition, 2009, , 105-124.	0.8	10
143	Nonlinear Nonnegative Component Analysis. , 2009, , .		0
144	Texture and shape information fusion for facial expression and facial action unit recognition. Pattern Recognition, 2008, 41, 833-851.	5.1	89

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145	Discriminant Graph Structures for Facial Expression Recognition. IEEE Transactions on Multimedia, 2008, 10, 1528-1540.	5.2	43
146	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
147	Minimum Class Variance Support Vector Machines. IEEE Transactions on Image Processing, 2007, 16, 2551-2564.	6.0	73
148	Class-Specific Kernel-Discriminant Analysis for Face Verification. IEEE Transactions on Information Forensics and Security, 2007, 2, 570-587.	4.5	47
149	The discriminant elastic graph matching algorithm applied to frontal face verification. Pattern Recognition, 2007, 40, 2798-2810.	5.1	15
150	Learning Discriminant Person-Specific Facial Models Using Expandable Graphs. IEEE Transactions on Information Forensics and Security, 2007, 2, 55-68.	4.5	17
151	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
152	Exploiting discriminant information in elastic graph matching. , 2005, , .		9
153	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