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List of Publications by Year
in descending order

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134 papers	10,143 citations	218677 26 h-index	155660 55 g-index
139 all docs	139 docs citations	139 times ranked	5927 citing authors

#	Article	IF	Citations
1	Interpretation of Depression Detection Models via Feature Selection Methods. IEEE Transactions on Affective Computing, 2023, 14, 133-152.	8.3	32
2	Deep Brain Stimulation for Depression Informed by Intracranial Recordings. Biological Psychiatry, 2022, 92, 246-251.	1.3	58
3	A Person- and Time-Varying Vector Autoregressive Model to Capture Interactive Infant-Mother Head Movement Dynamics. Multivariate Behavioral Research, 2021, 56, 739-767.	3.1	10
4	A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. Neurosurgery, 2021, 89, E116-E121.	1.1	32
5	Systematic Evaluation of Design Choices for Deep Facial Action Coding Across Pose. Frontiers in Computer Science, 2021, 3, .	2.8	3
6	In Reply: A Novel Framework for Network-Targeted Neuropsychiatric Deep Brain Stimulation. Neurosurgery, 2021, 89, E283.	1.1	2
7	Reconsidering the Duchenne Smile: Formalizing and Testing Hypotheses About Eye Constriction and Positive Emotion. Affective Science, 2021, 2, 32-47.	2.6	10
8	Synthetic Expressions are Better Than Real for Learning to Detect Facial Actions. , 2021, , .		3
9	Human-Guided Modality Informativeness for Affective States. , 2021, 2021, 728-734.		2
10	Long-term ecological assessment of intracranial electrophysiology synchronized to behavioral markers in obsessive-compulsive disorder. Nature Medicine, 2021, 27, 2154-2164.	30.7	44
11	Facial Action Units and Head Dynamics in Longitudinal Interviews Reveal OCD and Depression severity and DBS Energy. , 2021, , .		7
12	Goals, Tasks, and Bonds: Toward the Computational Assessment of Therapist Versus Client Perception of Working Alliance. , 2021, , .		0
13	Crossing Domains for AU Coding: Perspectives, Approaches, and Measures. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2020, 2, 158-171.	4.4	21
14	Deep Brain Stimulation for Intractable Obsessive-Compulsive Disorder: Progress and Opportunities. American Journal of Psychiatry, 2020, 177, 200-203.	7.2	16
15	Automated Detection of Optimal DBS Device Settings. , 2020, 2020, 354-356.		2
16	Multimodal Interaction in Psychopathology. , 2020, , .		0
17	Message from the General and Program Chairs FG 2020. , 2020, , .		0
18	Automated Measurement of Head Movement Synchrony during Dyadic Depression Severity Interviews. , 2019, 2019, .		6

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19	Cross-domain AU Detection: Domains, Learning Approaches, and Measures. , 2019, 2019, .		23
20	AFAR: A Deep Learning Based Tool for Automated Facial Affect Recognition. , 2019, 2019, .		24
21	Automatic Measurement of Visual Attention to Video Content using Deep Learning. , 2019, , .		2
22	The Case for Adaptive Neuromodulation to Treat Severe Intractable Mental Disorders. Frontiers in Neuroscience, 2019, 13, 152.	2.8	44
23	Editorial of Special Issue on Human Behaviour Analysis â€œIn-the-Wildâ€: IEEE Transactions on Affective Computing, 2019, 10, 4-6.	8.3	3
24	Reconsidering the Duchenne Smile: Indicator of Positive Emotion or Artifact of Smile Intensity?. , 2019, 2019, 594-599.		8
25	Gram Matrices Formulation of Body Shape Motion: An Application for Depression Severity Assessment. , 2019, , .		5
26	Dynamics of Face and Head Movement in Infants with and without Craniofacial Microsomia: An Automatic Approach. Plastic and Reconstructive Surgery - Global Open, 2019, 7, e2081.	0.6	39
27	FACS3D-Net: 3D Convolution based Spatiotemporal Representation for Action Unit Detection. , 2019, , .		21
28	The 2nd 3D Face Alignment in the Wild Challenge (3DFAW-Video): Dense Reconstruction From Video. , 2019, , .		10
29	D-PAttNet: Dynamic Patch-Attentive Deep Network for Action Unit Detection. Frontiers in Computer Science, 2019, 1, .	2.8	24
30	Affective facial computing: Generalizability across domains. , 2019, , 407-441.		11
31	Learning facial action units with spatiotemporal cues and multi-label sampling. Image and Vision Computing, 2019, 81, 1-14.	4.5	16
32	Unmasking the Devil in the Details: What Works for Deep Facial Action Coding?. , 2019, 2019, .		3
33	Viewpoint-Consistent 3D Face Alignment. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2250-2264.	13.9	14
34	Objective measurement of head movement differences in children with and without autism spectrum disorder. Molecular Autism, 2018, 9, 14.	4.9	50
35	Facial Expressiveness in Infants With and Without Craniofacial Microsomia. Cleft Palate-Craniofacial Journal, 2018, 55, 711-720.	0.9	8
36	Advanced serious illness, multimorbidity, and multibeneficence: The role of communication. Journal of Evaluation in Clinical Practice, 2018, 24, 1279-1281.	1.8	4

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37	Dynamic Multimodal Measurement of Depression Severity Using Deep Autoencoding. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 525-536.	6.3	120
38	FACSCaps: Pose-Independent Facial Action Coding with Capsules. , 2018, 2018, 2211-2220.		21
39	Automated Affect Detection in Deep Brain Stimulation for Obsessive-Compulsive Disorder. , 2018, 2018, 40-44.		16
40	Guest Editorial: The Computational Face. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2541-2545.	13.9	4
41	Multimodal assessment of depression from behavioral signals. , 2018, , 375-417.		23
42	Detecting Depression Severity by Interpretable Representations of Motion Dynamics. , 2018, 2018, 739-745.		33
43	Automatic, Objective, and Efficient Measurement of Pain Using Automated Face Analysis. , 2018, , 121-146.		11
44	Selective Transfer Machine for Personalized Facial Expression Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 529-545.	13.9	151
45	Dense 3D face alignment from 2D video for real-time use. Image and Vision Computing, 2017, 58, 13-24.	4.5	68
46	A Branch-and-Bound Framework for Unsupervised Common Event Discovery. International Journal of Computer Vision, 2017, 123, 372-391.	15.6	10
47	Behavioral cues help predict impact of advertising on future sales. Image and Vision Computing, 2017, 65, 49-57.	4.5	2
48	Sayette Group Formation Task (GFT) Spontaneous Facial Expression Database. , 2017, 2017, 581-588.		37
49	Learning Spatial and Temporal Cues for Multi-Label Facial Action Unit Detection. , 2017, , .		97
50	FERA 2017 - Addressing Head Pose in the Third Facial Expression Recognition and Analysis Challenge. , 2017, 2017, 839-847.		89
51	Automatic action unit detection in infants using convolutional neural network. , 2017, 2017, 216-221.		22
52	Representing Self-organization and Nonstationarities in Dyadic Interaction Processes Using Dynamic Systems Modeling Techniques. Methodology of Educational Measurement and Assessment, 2017, , 269-286.	0.4	2
53	Continuous Supervised Descent Method for Facial Landmark Localisation. Lecture Notes in Computer Science, 2017, , 121-135.	1.3	1
54	Deep Learning for Facial Action Unit Detection Under Large Head Poses. Lecture Notes in Computer Science, 2016, , 359-371.	1.3	8

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55	A Framework for Joint Estimation and Guided Annotation of Facial Action Unit Intensity. , 2016, , .		3
56	Person-Independent 3D Gaze Estimation Using Face Frontalization. , 2016, , .		18
57	Self-Adaptive Matrix Completion for Heart Rate Estimation from Face Videos under Realistic Conditions. , 2016, , .		204
58	Multimodal Spontaneous Emotion Corpus for Human Behavior Analysis. , 2016, , .		225
59	A Primer on Observational Measurement. Assessment, 2016, 23, 404-413.	3.1	37
60	Editorial of special issue on spontaneous facial behaviour analysis. Computer Vision and Image Understanding, 2016, 147, 50-51.	4.7	0
61	Joint Patch and Multi-label Learning for Facial Action Unit and Holistic Expression Recognition. IEEE Transactions on Image Processing, 2016, 25, 3931-3946.	9.8	68
62	Confidence Preserving Machine for Facial Action Unit Detection. IEEE Transactions on Image Processing, 2016, 25, 4753-4767.	9.8	13
63	Seventh International Workshop on Human Behavior Understanding (HBU 2016). , 2016, , .		0
64	The First 3D Face Alignment in the Wild (3DFAW) Challenge. Lecture Notes in Computer Science, 2016, , 511-520.	1.3	24
65	Survey on RGB, 3D, Thermal, and Multimodal Approaches for Facial Expression Recognition: History, Trends, and Affect-Related Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1548-1568.	13.9	385
66	Multimodal Detection of Depression in Clinical Interviews. , 2015, 2015, 307-310.		51
67	Joint patch and multi-label learning for facial action unit detection. , 2015, 2015, 2207-2216.		134
68	Speech volume indexes sex differences in the social-emotional effects of alcohol.. Experimental and Clinical Psychopharmacology, 2015, 23, 255-264.	1.8	11
69	Extraversion and the rewarding effects of alcohol in a social context.. Journal of Abnormal Psychology, 2015, 124, 660-673.	1.9	66
70	Automatic Measurement of Head and Facial Movement for Analysis and Detection of Infantsâ€™ Positive and Negative Affect. Frontiers in ICT, 2015, 2, .	3.6	11
71	Estimating smile intensity: A better way. Pattern Recognition Letters, 2015, 66, 13-21.	4.2	38
72	FERA 2014 chairs' welcome. , 2015, , .		1

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73	What can head and facial movements convey about positive and negative affect?. , 2015, , .		13
74	Confidence Preserving Machine for Facial Action Unit Detection. , 2015, , .		48
75	IntraFace. , 2015, 1, .		108
76	Unsupervised Synchrony Discovery in Human Interaction. , 2015, 2015, 3146-3154.		13
77	Cross-cultural detection of depression from nonverbal behaviour. , 2015, 1, .		50
78	How much training data for facial action unit detection?. , 2015, 1, .		23
79	Three dimensional binary edge feature representation for pain expression analysis. , 2015, 2015, .		7
80	Real-time dense 3D face alignment from 2D video with automatic facial action unit coding. , 2015, , .		2
81	Automated audiovisual depression analysis. Current Opinion in Psychology, 2015, 4, 75-79.	4.9	48
82	Spontaneous facial expression in unscripted social interactions can be measured automatically. Behavior Research Methods, 2015, 47, 1136-1147.	4.0	58
83	Open Challenges in Modelling, Analysis and Synthesis of Human Behaviour in Humanâ€“Human and Humanâ€“Machine Interactions. Cognitive Computation, 2015, 7, 397-413.	5.2	72
84	FERA 2015 - second Facial Expression Recognition and Analysis challenge. , 2015, , .		167
85	Head Movement Dynamics during Play and Perturbed Mother-Infant Interaction. IEEE Transactions on Affective Computing, 2015, 6, 361-370.	8.3	38
86	Dense 3D face alignment from 2D videos in real-time. , 2015, 1, .		128
87	Predicting Ad Liking and Purchase Intent: Large-Scale Analysis of Facial Responses to Ads. IEEE Transactions on Affective Computing, 2015, 6, 223-235.	8.3	101
88	Comparative Anatomy of the Face. , 2015, , 313-321.		3
89	Session details: Workshop Presentations. , 2015, , .		0
90	Dyadic Behavior Analysis in Depression Severity Assessment Interviews. , 2014, 2014, 112-119.		27

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91	Interpersonal Coordination of HeadMotion in Distressed Couples. IEEE Transactions on Affective Computing, 2014, 5, 155-167.	8.3	35
92	Nonverbal social withdrawal in depression: Evidence from manual and automatic analyses. Image and Vision Computing, 2014, 32, 641-647.	4.5	179
93	Spatio-temporal Event Classification Using Time-Series Kernel Based Structured Sparsity. Lecture Notes in Computer Science, 2014, 2014, 135-150.	1.3	19
94	Detecting Depression Severity from Vocal Prosody. IEEE Transactions on Affective Computing, 2013, 4, 142-150.	8.3	173
95	Head Movement Dynamics during Normal and Perturbed Parent-Infant Interaction. , 2013, , .		13
96	Affectiva-MIT Facial Expression Dataset (AM-FED): Naturalistic and Spontaneous Facial Expressions Collected "In-the-Wild". , 2013, , .		154
97	Social risk and depression: Evidence from manual and automatic facial expression analysis. , 2013, , 1-8.		109
98	Temporal coordination of head motion in couples with history of interpersonal violence. , 2013, , .		7
99	The temporal connection between smiles and blinks. , 2013, , .		4
100	Continuous AU intensity estimation using localized, sparse facial feature space. , 2013, , .		58
101	A comparison of alternative classifiers for detecting occurrence and intensity in spontaneous facial expression of infants with their mothers. , 2013, , .		6
102	The effects of alcohol on the emotional displays of Whites in interracial groups.. Emotion, 2013, 13, 468-477.	1.8	26
103	The eyes have it: Making positive expressions more positive and negative expressions more negative.. Emotion, 2012, 12, 430-436.	1.8	98
104	Intensity measurement of spontaneous facial actions: Evaluation of different image representations. , 2012, , .		8
105	Real-time avatar animation from a single image. , 2011, , .		22
106	Prediction-based classification for audiovisual discrimination between laughter and speech. , 2011, , .		9
107	Real-time avatar animation from a single image. , 2011, , 117-124.		33
108	Facial action unit recognition with sparse representation. , 2011, , .		57

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109	Person-independent facial expression detection using Constrained Local Models. , 2011, , .		74
110	Dynamic Cascades with Bidirectional Bootstrapping for Action Unit Detection in Spontaneous Facial Behavior. IEEE Transactions on Affective Computing, 2011, 2, 79-91.	8.3	43
111	Deformable Model Fitting by Regularized Landmark Mean-Shift. International Journal of Computer Vision, 2011, 91, 200-215.	15.6	686
112	Spontaneous facial expression in a small group can be automatically measured: An initial demonstration. Behavior Research Methods, 2010, 42, 1079-1086.	4.0	43
113	Non-rigid face tracking with enforced convexity and local appearance consistency constraint. Image and Vision Computing, 2010, 28, 781-789.	4.5	20
114	Unsupervised discovery of facial events. , 2010, , .		58
115	The Extended Cohn-Kanade Dataset (CK+): A complete dataset for action unit and emotion-specified expression. , 2010, , .		2,498
116	Registration Invariant Representations for Expression Detection. , 2010, , .		13
117	Least-squares congealing for large numbers of images. , 2009, , .		30
118	Face alignment through subspace constrained mean-shifts. , 2009, , .		259
119	Automatically detecting action units from faces of pain: Comparing shape and appearance features. , 2009, , .		15
120	Deformable model fitting with a mixture of local experts. , 2009, , .		13
121	Automated classification of gaze direction using spectral regression and support vector machine. , 2009, , .		7
122	Dynamic cascades with bidirectional bootstrapping for spontaneous facial action unit detection. , 2009, , .		17
123	Automated Measurement of Facial Expression in Infantâ€“Mother Interaction: A Pilot Study. Infancy, 2009, 14, 285-305.	1.6	137
124	A framework for automated measurement of the intensity of non-posed Facial Action Units. , 2009, , .		76
125	Probabilistic constrained adaptive local displacement experts. , 2009, , .		1
126	Automatically detecting action units from faces of pain: Comparing shape and appearance features. , 2009, , .		2

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127	A framework for automated measurement of the intensity of non-posed Facial Action Units. , 2009, , .		5
128	Multi-PIE. , 2008, , .		290
129	Non-Rigid Object Alignment with a Mismatch Template Based on Exhaustive Local Search. , 2007, , .		10
130	Automatic recognition of eye blinking in spontaneously occurring behavior. Behavior Research Methods, 2003, 35, 420-428.	1.3	27
131	Recognizing action units for facial expression analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 97-115.	13.9	1,304
132	FERA 2015 - second Facial Expression Recognition and Analysis challenge. , 0, .		1
133	Cross-Cultural Depression Recognition from Vocal Biomarkers. , 0, , .		30
134	Bag-of-Acoustic-Words for Mental Health Assessment: A Deep Autoencoding Approach. , 0, , .		1