Matti Pietikainen

List of Publications by Year in descending order

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33 papers	12,470 citations	430874 18 h-index	610901 24 g-index
33 all docs	33 docs citations	33 times ranked	8141 citing authors

#	Article	IF	Citations
1	Face Description with Local Binary Patterns: Application to Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 2037-2041.	13.9	4,914
2	Dynamic Texture Recognition Using Local Binary Patterns with an Application to Facial Expressions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 915-928.	13.9	2,322
3	Deep Learning for Generic Object Detection: A Survey. International Journal of Computer Vision, 2020, 128, 261-318.	15.6	1,565
4	Facial expression recognition from near-infrared videos. Image and Vision Computing, 2011, 29, 607-619.	4.5	584
5	Computer Vision Using Local Binary Patterns. Computational Imaging and Vision, 2011, , .	0.6	383
6	A Spontaneous Micro-expression Database: Inducement, collection and baseline. , 2013, , .		351
7	Median Robust Extended Local Binary Pattern for Texture Classification. IEEE Transactions on Image Processing, 2016, 25, 1368-1381.	9.8	321
8	Local binary features for texture classification: Taxonomy and experimental study. Pattern Recognition, 2017, 62, 135-160.	8.1	291
9	Recognising spontaneous facial micro-expressions. , 2011, , .		257
10	From BoW to CNN: Two Decades of Texture Representation for Texture Classification. International Journal of Computer Vision, 2019, 127, 74-109.	15.6	247
11	Towards Reading Hidden Emotions: A Comparative Study of Spontaneous Micro-Expression Spotting and Recognition Methods. IEEE Transactions on Affective Computing, 2018, 9, 563-577.	8.3	241
12	Spontaneous facial micro-expression analysis using Spatiotemporal Completed Local Quantized Patterns. Neurocomputing, 2016, 175, 564-578.	5.9	197
13	Boosted multi-resolution spatiotemporal descriptors for facial expression recognition. Pattern Recognition Letters, 2009, 30, 1117-1127.	4.2	115
14	Spatiotemporal Local Monogenic Binary Patterns for Facial Expression Recognition. IEEE Signal Processing Letters, 2012, 19, 243-246.	3.6	112
15	Discriminative Spatiotemporal Local Binary Pattern with Revisited Integral Projection for Spontaneous Facial Micro-Expression Recognition. IEEE Transactions on Affective Computing, 2019, 10, 32-47.	8.3	106
16	Towards a practical lipreading system. , 2011, , .		103
17	A Malaria Diagnostic Tool Based on Computer Vision Screening and Visualization of Plasmodium falciparum Candidate Areas in Digitized Blood Smears. PLoS ONE, 2014, 9, e104855.	2.5	88
18	Spotting Rapid Facial Movements from Videos Using Appearance-Based Feature Difference Analysis. , 2014, , .		65

#	Article	IF	Citations
19	Evaluation of LBP and Deep Texture Descriptors with a New Robustness Benchmark. Lecture Notes in Computer Science, 2016, , 69-86.	1.3	31
20	An Image-Based Visual Speech Animation System. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1420-1432.	8.3	30
21	Texture Classification in Extreme Scale Variations Using GANet. IEEE Transactions on Image Processing, 2019, 28, 3910-3922.	9.8	23
22	Encoding Local Binary Patterns using the re-parametrization of the second order Gaussian jet. , 2013, , .		22
23	Median robust extended local binary pattern for texture classification. , 2015, , .		21
24	Multimodal Framework for Analyzing the Affect of a Group of People. IEEE Transactions on Multimedia, 2018, 20, 2706-2721.	7.2	20
25	Informative Feature Disentanglement for Unsupervised Domain Adaptation. IEEE Transactions on Multimedia, 2022, 24, 2407-2421.	7.2	16
26	Minotaurus: A System for Affective Humanâ€“Robot Interaction in Smart Environments. Cognitive Computation, 2014, 6, 940-953.	5.2	13
27	Adaptive Semantic-Spatio-Temporal Graph Convolutional Network for Lip Reading. IEEE Transactions on Multimedia, 2022, 24, 3545-3557.	7.2	9
28	Robust Facial Expression Recognition Using Revised Canonical Correlation. , 2014, , .		5
29	Characterizing Subtle Facial Movements via Riemannian Manifold. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-24.	4.3	5
30	Analyzing Group-Level Emotion with Global Alignment Kernel based Approach. IEEE Transactions on Affective Computing, 2022, 13, 713-728.	8.3	5
31	Hyperspectral Estimation of Soil Copper Concentration Based on Improved TabNet Model in the Eastern Junggar Coalfield. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	4
32	Combining sparse and dense descriptors with temporal semantic structures for robust human action recognition. , 2011, , .		2
33	Pose Estimation via Complex-Frequency Domain Analysis of Image Gradient Orientations. , 2014, , .		2