Matti Pietikainen

List of Publications by Year
in descending order

33 papers	12,470 citations	430442 18 h-index	610482 24 g-index
33 all docs	33 docs citations	33 times ranked	8141 citing authors

#	Article	IF	Citations
1	Analyzing Group-Level Emotion with Global Alignment Kernel based Approach. IEEE Transactions on Affective Computing, 2022, 13, 713-728.	5.7	5
2	Informative Feature Disentanglement for Unsupervised Domain Adaptation. IEEE Transactions on Multimedia, 2022, 24, 2407-2421.	5.2	16
3	Adaptive Semantic-Spatio-Temporal Graph Convolutional Network for Lip Reading. IEEE Transactions on Multimedia, 2022, 24, 3545-3557.	5.2	9
4	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.	2.7	4
5	Deep Learning for Generic Object Detection: A Survey. International Journal of Computer Vision, 2020, 128, 261-318.	10.9	1,565
6	Texture Classification in Extreme Scale Variations Using GANet. IEEE Transactions on Image Processing, 2019, 28, 3910-3922.	6.0	23
7	From BoW to CNN: Two Decades of Texture Representation for Texture Classification. International Journal of Computer Vision, 2019, 127, 74-109.	10.9	247
8	Discriminative Spatiotemporal Local Binary Pattern with Revisited Integral Projection for Spontaneous Facial Micro-Expression Recognition. IEEE Transactions on Affective Computing, 2019, 10, 32-47.	5.7	106
9	Characterizing Subtle Facial Movements via Riemannian Manifold. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-24.	3.0	5
10	Multimodal Framework for Analyzing the Affect of a Group of People. IEEE Transactions on Multimedia, 2018, 20, 2706-2721.	5.2	20
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.	5.7	241
12	Local binary features for texture classification: Taxonomy and experimental study. Pattern Recognition, 2017, 62, 135-160.	5.1	291
13	Evaluation of LBP and Deep Texture Descriptors with a New Robustness Benchmark. Lecture Notes in Computer Science, 2016, , 69-86.	1.0	31
14	Median Robust Extended Local Binary Pattern for Texture Classification. IEEE Transactions on Image Processing, 2016, 25, 1368-1381.	6.0	321
15	Spontaneous facial micro-expression analysis using Spatiotemporal Completed Local Quantized Patterns. Neurocomputing, 2016, 175, 564-578.	3.5	197
16	Median robust extended local binary pattern for texture classification. , 2015, , .		21
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.	1.1	88
18	Pose Estimation via Complex-Frequency Domain Analysis of Image Gradient Orientations. , 2014, , .		2

#	Article	IF	Citations
19	Minotaurus: A System for Affective Human–Robot Interaction in Smart Environments. Cognitive Computation, 2014, 6, 940-953.	3.6	13
20	Robust Facial Expression Recognition Using Revised Canonical Correlation. , 2014, , .		5
21	Spotting Rapid Facial Movements from Videos Using Appearance-Based Feature Difference Analysis. , 2014, , .		65
22	A Spontaneous Micro-expression Database: Inducement, collection and baseline. , 2013, , .		351
23	Encoding Local Binary Patterns using the re-parametrization of the second order Gaussian jet. , 2013, , .		22
24	An Image-Based Visual Speech Animation System. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1420-1432.	5.6	30
25	Spatiotemporal Local Monogenic Binary Patterns for Facial Expression Recognition. IEEE Signal Processing Letters, 2012, 19, 243-246.	2.1	112
26	Towards a practical lipreading system. , 2011, , .		103
27	Combining sparse and dense descriptors with temporal semantic structures for robust human action recognition. , 2011, , .		2
28	Recognising spontaneous facial micro-expressions. , 2011, , .		257
29	Computer Vision Using Local Binary Patterns. Computational Imaging and Vision, 2011, , .	0.6	383
30	Facial expression recognition from near-infrared videos. Image and Vision Computing, 2011, 29, 607-619.	2.7	584
31	Boosted multi-resolution spatiotemporal descriptors for facial expression recognition. Pattern Recognition Letters, 2009, 30, 1117-1127.	2.6	115
32	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.	9.7	2,322
33	Face Description with Local Binary Patterns: Application to Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 2037-2041.	9.7	4,914