Massimo Piccardi

List of Publications by Year
in descending order

116 papers	4,490 citations	623188 14 h-index	189595 50 g-index
122 all docs	122 docs citations	122 times ranked	3382 citing authors

#	Article	IF	Citations
1	Background subtraction techniques: a review. , 0, , .		1,186
2	Detecting moving objects, ghosts, and shadows in video streams. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1337-1342.	9.7	1,149
3	Image analysis and rule-based reasoning for a traffic monitoring system. IEEE Transactions on Intelligent Transportation Systems, 2000, 1, 119-130.	4.7	303
4	Bi-modal emotion recognition from expressive face and body gestures. Journal of Network and Computer Applications, 2007, 30, 1334-1345.	5.8	293
5	Automatic Temporal Segment Detection and Affect Recognition From Face and Body Display. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 64-84.	5.5	159
6	Tracking people across disjoint camera views by an illumination-tolerant appearance representation. Machine Vision and Applications, 2007, 18, 233-247.	1.7	154
7	A Bimodal Face and Body Gesture Database for Automatic Analysis of Human Nonverbal Affective Behavior. , 2006, , .		127
8	Recurrent neural networks with specialized word embeddings for health-domain named-entity recognition. Journal of Biomedical Informatics, 2017, 76, 102-109.	2.5	101
9	Affect Recognition from Face and Body: Early Fusion vs. Late Fusion. , 0, , .		87
10	Assessing facial beauty through proportion analysis by image processing and supervised learning. International Journal of Human Computer Studies, 2006, 64, 1184-1199.	3.7	86
11	Detecting objects, shadows and ghosts in video streams by exploiting color and motion information. , 0, , .		73
12	Machine learning applications to neuroimaging for glioma detection and classification: An artificial intelligence augmented systematic review. Journal of Clinical Neuroscience, 2021, 89, 177-198.	0.8	49
13	Discriminative prototype selection methods for graph embedding. Pattern Recognition, 2013, 46, 1648-1657.	5.1	42
14	Training Initialization of Hidden Markov Models in Human Action Recognition. IEEE Transactions on Automation Science and Engineering, 2014, 11, 394-408.	3.4	33
15	Matching of Objects Moving Across Disjoint Cameras. , 2006, , .		25
16	An Investigation of Recurrent Neural Architectures for Drug Name Recognition. , 2016, , .		25
17	Multi-Frame Moving Object Track Matching Based on an Incremental Major Color Spectrum Histogram Matching Algorithm. , 0, , .		22
18	Real-time detection of moving vehicles. , 0, , .		20

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19	Fusing Face and Body Display for Bi-modal Emotion Recognition: Single Frame Analysis and Multi-frame Post Integration. Lecture Notes in Computer Science, 2005, , 102-111.	1.0	20
20	Joint Action Segmentation and Classification by an Extended Hidden Markov Model. IEEE Signal Processing Letters, 2013, 20, 1207-1210.	2.1	20
21	Hidden Markov Models with Kernel Density Estimation of Emission Probabilities and their Use in Activity Recognition. , 2007, , .		19
22	Head detection for video surveillance based on categorical hair and skin colour models. , 2009, , .		18
23	AdOn HDP-HMM: An Adaptive Online Model for Segmentation and Classification of Sequential Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3953-3968.	7.2	18
24	Feature extraction techniques for abandoned object classification in video surveillance. , 2008, , .		16
25	V-JAUNE. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-19.	3.0	16
26	Exploiting cache in multimedia. , 0, , .		15
27	Tracking People in Crowds by a Part Matching Approach. , 2008, , .		14
28	An online HDP-HMM for joint action segmentation and classification in motion capture data. , 2012, , .		14
29	Special issue on background modeling for foreground detection in real-world dynamic scenes. Machine Vision and Applications, 2014, 25, 1101-1103.	1.7	14
30	The use of privacy-protected computer vision to measure the quality of healthcare worker hand hygiene. International Journal for Quality in Health Care, 2019, 31, 36-42.	0.9	13
31	Comparison Between Genetic Algorithms and the Baum-Welch Algorithm in Learning HMMs for Human Activity Classification. , 2007, , 399-406.		13
32	Local Depth Patterns for Tracking in Depth Videos. , 2015, , .		13
33	A framework for track matching across disjoint cameras using robust shape and appearance features. , 2007, , .		12
34	Creating and Annotating Affect Databases from Face and Body Display: A Contemporary Survey. , 2006, , .		11
35	An efficient Bayesian framework for on-line action recognition. , 2009, , .		11
36	A discriminative prototype selection approach for graph embedding in human action recognition. , 2011, , .		11

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37	Ethical thinking machines in surgery and the requirement for clinical leadership. American Journal of Surgery, 2020, 220, 1372-1374.	0.9	11
38	A real-time hardware implementation of the hough transform. Journal of Systems Architecture, 1998, 45, 31-45.	2.5	10
39	Neighbor Cache Prefetching for Multimedia Image and Video Processing. IEEE Transactions on Multimedia, 2004, 6, 539-552.	5.2	10
40	An accurate algorithm for head detection based on XYZ and HSV hair and skin color models. , 2008, , .		10
41	Structural SVM with Partial Ranking for Activity Segmentation and Classification. IEEE Signal Processing Letters, 2015, 22, 2344-2348.	2.1	10
42	A simulated annealing–based maximum–margin clustering algorithm. Computational Intelligence, 2019, 35, 23-41.	2.1	10
43	BiLSTM-SSVM: Training the BiLSTM with a Structured Hinge Loss for Named-Entity Recognition. IEEE Transactions on Big Data, 2022, 8, 203-212.	4.4	10
44	Exploiting image processing locality in cache pre-fetching. , 0, , .		9
45	Analysis of healthcare service utilization after transport-related injuries by a mixture of hidden Markov models. PLoS ONE, 2018, 13, e0206274.	1.1	9
46	HMM-MIO: An enhanced hidden Markov model for action recognition. , 2011, , .		8
47	An Embedding-Based Topic Model for Document Classification. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-13.	1.3	8
48	Improving Data Prefetching Efficacy in Multimedia Applications. Multimedia Tools and Applications, 2003, 20, 159-178.	2.6	7
49	Comparison of Classifiers for Human Activity Recognition. Lecture Notes in Computer Science, 2007, , 192-201.	1.0	6
50	Robust Dimensionality Reduction for Human Action Recognition. , 2010, , .		6
51	Sequential Labeling With Structural SVM Under Nondecomposable Losses. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4177-4188.	7.2	6
52	From eager to lazy constrained data acquisition: A general framework. New Generation Computing, 2001, 19, 339-367.	2.5	5
53	Automatic Visual Recognition of Face and Body Action Units. , 0, , .		5
54	A hardware generator of multi-point distributed random numbers for Monte Carlo simulation. Mathematics and Computers in Simulation, 2008, 77, 45-56.	2.4	5

#	ARTICLE	IF	CITATIONS
55	Deterministic Initialization of Hidden Markov Models for Human Action Recognition. , 2009, , .		5
56	Histogram-Based Training Initialisation of Hidden Markov Models for Human Action Recognition. , 2010, , .		5
57	An Infinite Adaptive Online Learning Model for Segmentation and Classification of Streaming Data. , 2014, , .		5
58	A Shared Attention Mechanism for Interpretation of Neural Automatic Post-Editing Systems. , 2018, , .		5
59	Detection of Circular Objects by Wave Propagation on a Mesh-Connected Computer. Journal of Parallel and Distributed Computing, 1995, 31, 77-87.	2.7	4
60	The GIOTTO System: a Parallel Computer for Image Processing. Real Time Imaging, 1997, 3, 343-353.	1.6	4
61	Neural network classifiers for automated video surveillance. , 2003, , .		4
62	Automated classification of female facial beauty by image analysis and supervised learning. , 2004, , .		4
63	Comparative beauty classification for pre-surgery planning. , 0, , .		4
64	Mitigating the Effects of Variable Illumination for Tracking across Disjoint Camera Views. , 2006, , .		4
65	Human action recognition with MPEG-7 descriptors and architectures. , 2010, , .		4
66	Robust density modelling using the student's t-distribution for human action recognition. , 2011, , .		4
67	Prototype-based budget maintenance for tracking in depth videos. Multimedia Tools and Applications, 2017, 76, 21117-21132.	2.6	4
68	Automatic Human Action Recognition in Videos by Graph Embedding. Lecture Notes in Computer Science, 2011, , 19-28.	1.0	4
69	Block processing on multiprocessor DSPs for multimedia applications. , 0, , .		3
70	Eliciting visual primitives for detection of elongated shapes. Image and Vision Computing, 1999, 17, 347-355.	2.7	3
71	Hardware prefetching techniques for cache memories in multimedia applications. , 0, , .		3
72	An application of machine learning and statistics to defect detection. Intelligent Data Analysis, 2001, 5, 151-164.	0.4	3

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73	Detecting Major Segmentation Errors for a Tracked Person Using Colour Feature Analysis. , 2007, , .		3
74	Automatic Classification of Abandoned Objects for Surveillance of Public Premises. , 2008, , .		3
75	Compressive Sensing of Time Series for Human Action Recognition. , 2010, , .		3
76	Complex event recognition by latent temporal models of concepts. , 2014, , .		3
77	Joint action recognition and summarization by sub-modular inference. , 2016, , .		3
78	Minimum-Risk Structured Learning of Video Summarization. , 2017, , .		3
79	Multichannel mixture models for time-series analysis and classification of engagement with multiple health services: An application to psychology and physiotherapy utilization patterns after traffic accidents. Artificial Intelligence in Medicine, 2021, 111, 101997.	3.8	3
80	Title is missing!. , 2019, , .		3
81	Exploiting symbolic learning in visual inspection. Lecture Notes in Computer Science, 1997, , 223-234.	1.0	2
82	3D object recognition by VC-graphs and interactive constraint satisfaction. , 0, , .		2
83	Efficient video object classifier using locality-enhanced support vector machines. , 0, , .		2
84	Maximum-likelihood dimensionality reduction in gaussian mixture models with an application to object classification. , 2008, , .		2
85	Comparative performance analysis of feature sets for abandoned object classification. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
86	MLiT: mixtures of Gaussians under linear transformations. Pattern Analysis and Applications, 2011, 14, 193-205.	3.1	2
87	Tracking people under heavy occlusions by layered data association. Multimedia Tools and Applications, 2015, 74, 7239-7259.	2.6	2
88	Local depth patterns for fine-grained activity recognition in depth videos. , 2016, , .		2
89	A pair hidden Markov support vector machine for alignment of human actions. , 2016, , .		2
90	Topic-Document Inference With the Gumbel-Softmax Distribution. IEEE Access, 2021, 9, 1313-1320.	2.6	2

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91	BERTTune: Fine-Tuning Neural Machine Translation with BERTScore. , 2021, , .		2
92	NeuSub: A Neural Submodular Approach for Citation Recommendation. IEEE Access, 2021, 9, 148459-148468.	2.6	2
93	Sequential Labeling with Structural SVM Under an Average Precision Loss. Lecture Notes in Computer Science, 2016, , 344-354.	1.0	2
94	Regressing Word and Sentence Embeddings for Low-Resource Neural Machine Translation. IEEE Transactions on Artificial Intelligence, 2023, 4, 450-463.	3.4	2
95	A Hardware Generator for Multi-point Distributed Random Variables. , 0, , .		1
96	Sequential labeling with structural SVM under the F_1 loss. , 2014, , .		1
97	Static action recognition by efficient greedy inference. , 2016, , .		1
98	Learning Neural Textual Representations for Citation Recommendation. , 2021, , .		1
99	Human Action Recognition in Video by Fusion of Structural and Spatio-temporal Features. Lecture Notes in Computer Science, 2012, , 474-482.	1.0	1
100	Taxonomy-Augmented Features for Document Clustering. Communications in Computer and Information Science, 2019, , 241-252.	0.4	1
101	Detection of luminosity profiles of elongated shapes. , 0, , .		0
102	Computational models for image processing for shared-memory multiprocessors. Integrated Computer-Aided Engineering, 2000, 7, 39-52.	2.5	0
103	Video Surveillance at the Beginning of the Third Millennium: The Viewpoint of Research, Industry, Government Bodies, Research Funding Agencies and the Community. , 2006, , .		0
104	Human-Focused Computer Vision Applications. , 0, , .		0
105	Towards simultaneous place classification and object detection based on conditional random field with multiple cues. , 2013, , .		0
106	Dissimilarity-based action recognition with the pair hidden Markov support vector machine. , 2017, , .		0
107	Minimum-risk temporal alignment of videos. Multimedia Tools and Applications, 2018, 77, 14891-14906.	2.6	0
108	A Semi-supervised Hidden Markov Topic Model Based on Prior Knowledge. Communications in Computer and Information Science, 2018, , 265-276.	0.4	0

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109	Well-M^{3}N: A Maximum-Margin Approach to Unsupervised Structured Prediction. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 427-439.	3.4	0
110	RewardsOfSum: Exploring Reinforcement Learning Rewards for Summarisation. , 2021, , .		0
111	An FPGA generator for multipoint distributed random variables (abstract only). , 2005, , .		0
112	Mixtures of Normalized Linear Projections. Lecture Notes in Computer Science, 2009, , 66-76.	1.0	0
113	System-Wide Tracking of Individuals. Studies in Computational Intelligence, 2011, , 83-103.	0.7	0
114	Learning for feature selection and shape detection. Lecture Notes in Computer Science, 1997, , 535-542.	1.0	0
115	Inertial Sensor based Post Fall Analysis for False Alarming Reduction. , 2016, , .		0
116	Neural Topic Model Training with the REBAR Gradient Estimator. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-18.	1.3	0