

Mario Vento

List of Publications by Year in descending order

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45
papers

3,254
citations

430874

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h-index

330143

37
g-index

46
all docs

46
docs citations

46
times ranked

2873
citing authors

#	ARTICLE	IF	CITATIONS
1	A (sub)graph isomorphism algorithm for matching large graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1367-1372.	13.9	1,000
2	Trainable COSFIRE filters for vessel delineation with application to retinal images. Medical Image Analysis, 2015, 19, 46-57.	11.6	581
3	Real-Time Fire Detection for Video-Surveillance Applications Using a Combination of Experts Based on Color, Shape, and Motion. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1545-1556.	8.3	277
4	GRAPH MATCHING AND LEARNING IN PATTERN RECOGNITION IN THE LAST 10 YEARS. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1450001.	1.2	252
5	Trends in IoT based solutions for health care: Moving AI to the edge. Pattern Recognition Letters, 2020, 135, 346-353.	4.2	199
6	Reliable detection of audio events in highly noisy environments. Pattern Recognition Letters, 2015, 65, 22-28.	4.2	115
7	Challenging the Time Complexity of Exact Subgraph Isomorphism for Huge and Dense Graphs with VF3. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 804-818.	13.9	85
8	Supervised vessel delineation in retinal fundus images with the automatic selection of B-COSFIRE filters. Machine Vision and Applications, 2016, 27, 1137-1149.	2.7	81
9	Benchmarking human epithelial type 2 interphase cells classification methods on a very large dataset. Artificial Intelligence in Medicine, 2015, 65, 239-250.	6.5	60
10	Dynamic Scene Understanding for Behavior Analysis Based on String Kernels. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1669-1681.	8.3	52
11	An intelligent flying system for automatic detection of faults in photovoltaic plants. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2027-2040.	4.9	50
12	Introducing VF3: A New Algorithm for Subgraph Isomorphism. Lecture Notes in Computer Science, 2017, , 128-139.	1.3	38
13	Age from Faces in the Deep Learning Revolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2113-2132.	13.9	37
14	AReN: A Deep Learning Approach for Sound Event Recognition Using a Brain Inspired Representation. IEEE Transactions on Information Forensics and Security, 2020, 15, 3610-3624.	6.9	36
15	Audio surveillance using a bag of aural words classifier. , 2013, , .		34
16	Fusion of Domain-Specific and Trainable Features for Gender Recognition From Face Images. IEEE Access, 2018, 6, 24171-24183.	4.2	33
17	Sentiment analysis for customer relationship management: an incremental learning approach. Applied Intelligence, 2021, 51, 3339-3352.	5.3	27
18	A Convolutional Neural Network for Gender Recognition Optimizing the Accuracy/Speed Tradeoff. IEEE Access, 2020, 8, 130771-130781.	4.2	26

#	ARTICLE	IF	CITATIONS
19	An Ensemble of Rejecting Classifiers for Anomaly Detection of Audio Events. , 2012, , .		22
20	Semantically Enhanced UAVs to Increase the Aerial Scene Understanding. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 555-567.	9.3	20
21	Effective training of convolutional neural networks for age estimation based on knowledge distillation. Neural Computing and Applications, 2022, 34, 21449-21464.	5.6	18
22	Benchmarking deep network architectures for ethnicity recognition using a new large face dataset. Machine Vision and Applications, 2020, 31, 1.	2.7	15
23	Combining Neural Networks and Fuzzy Systems for Human Behavior Understanding. , 2012, , .		14
24	An effective real time gender recognition system for smart cameras. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2407-2419.	4.9	14
25	VF2 Plus: An Improved version of VF2 for Biological Graphs. Lecture Notes in Computer Science, 2015, , 168-177.	1.3	14
26	A system for storing and retrieving huge amount of trajectory data, allowing spatio-temporal dynamic queries. , 2012, , .		13
27	VF3-Light: A lightweight subgraph isomorphism algorithm and its experimental evaluation. Pattern Recognition Letters, 2019, 125, 591-596.	4.2	12
28	Trends in graph-based representations for Pattern Recognition. Pattern Recognition Letters, 2020, 134, 3-9.	4.2	12
29	Emotion analysis from faces for social robotics. , 2019, , .		11
30	Gender recognition in the wild: a robustness evaluation over corrupted images. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 10461-10472.	4.9	11
31	Real-time tracking of single people and groups simultaneously by contextual graph-based reasoning dealing complex occlusions. , 2013, , .		10
32	Report on the First Contest on Graph Matching Algorithms for Pattern Search in Biological Databases. Lecture Notes in Computer Science, 2015, , 178-187.	1.3	9
33	A Clustering Algorithm of Trajectories for Behaviour Understanding Based on String Kernels. , 2012, , .		8
34	A Parallel Algorithm for Subgraph Isomorphism. Lecture Notes in Computer Science, 2019, , 141-151.	1.3	8
35	Comparing performance of graph matching algorithms on huge graphs. Pattern Recognition Letters, 2020, 134, 58-67.	4.2	8
36	On the use of semantic technologies for video analytics. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 567-587.	4.9	8

#	ARTICLE	IF	CITATIONS
37	DENet: a deep architecture for audio surveillance applications. Neural Computing and Applications, 2021, 33, 11273-11284.	5.6	7
38	Performance Assessment of Face Analysis Algorithms with Occluded Faces. Lecture Notes in Computer Science, 2021, , 472-486.	1.3	5
39	Benchmarking deep networks for facial emotion recognition in the wild. Multimedia Tools and Applications, 2023, 82, 11189-11220.	3.9	5
40	Vehicles Detection for Smart Roads Applications on Board of Smart Cameras: A Comparative Analysis. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8077-8089.	8.0	3
41	A deep learning based system for handwashing procedure evaluation. Neural Computing and Applications, 2023, 35, 15981-15996.	5.6	3
42	The VF3-Light Subgraph Isomorphism Algorithm: When Doing Less Is More Effective. Lecture Notes in Computer Science, 2018, , 315-325.	1.3	2
43	Which are the factors affecting the performance of audio surveillance systems?. , 2021, , .		2
44	Two parallel versions of VF3: Performance analysis on a wide database of graphs. Pattern Recognition Letters, 2021, 146, 150-157.	4.2	2
45	Parallel Subgraph Isomorphism on Multi-core Architectures: A Comparison of Four Strategies Based on Tree Search. Lecture Notes in Computer Science, 2021, , 248-258.	1.3	0