

# Andrea Prati

## List of Publications by Year in descending order

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116  
papers

3,689  
citations

331259

21  
h-index

155451

55  
g-index

125  
all docs

125  
docs citations

125  
times ranked

2594  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Detecting moving shadows: algorithms and evaluation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 918-923.	9.7	646
3	A multi-camera vision system for fall detection and alarm generation. Expert Systems, 2007, 24, 334-345.	2.9	159
4	Probabilistic Posture Classification for Human-Behavior Analysis. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2005, 35, 42-54.	3.4	152
5	A fast and effective ellipse detector for embedded vision applications. Pattern Recognition, 2014, 47, 3693-3708.	5.1	123
6	A deep analysis on age estimation. Pattern Recognition Letters, 2015, 68, 239-249.	2.6	76
7	Detecting objects, shadows and ghosts in video streams by exploiting color and motion information. , 0, , .		73
8	Detecting anomalies in people's trajectories using spectral graph analysis. Computer Vision and Image Understanding, 2011, 115, 1099-1111.	3.0	70
9	Video Streaming for Mobile Video Surveillance. IEEE Transactions on Multimedia, 2008, 10, 1142-1154.	5.2	63
10	Real-time object detection and localization with SIFT-based clustering. Image and Vision Computing, 2012, 30, 573-587.	2.7	57
11	Reliable background suppression for complex scenes. , 2006, , .		52
12	Bayesian-Competitive Consistent Labeling for People Surveillance. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 354-360.	9.7	52
13	Mixtures of von Mises Distributions for People Trajectory Shape Analysis. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 457-471.	5.6	48
14	Multistage Particle Windows for Fast and Accurate Object Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1589-1604.	9.7	46
15	HECOL: Homography and epipolar-based consistent labeling for outdoor park surveillance. Computer Vision and Image Understanding, 2008, 111, 21-42.	3.0	36
16	Computer vision system for in-house video surveillance. IET Computer Vision, 2005, 152, 242.	1.3	35
17	Intelligent Video Surveillance as a Service. , 2013, , 1-16.		34
18	Detection of abnormal behaviors using a mixture of Von Mises distributions. , 2007, , .		33

#	ARTICLE	IF	CITATIONS
19	Multi-target Tracking in Multiple Non-overlapping Cameras Using Fast-Constrained Dominant Sets. International Journal of Computer Vision, 2019, 127, 1303-1320.	10.9	32
20	A Hough transform-based method for radial lens distortion correction. , 0, , .		31
21	Using circular statistics for trajectory shape analysis. , 2008, , .		28
22	Fashion Product Classification through Deep Learning and Computer Vision. Applied Sciences (Switzerland), 2019, 9, 1385.	1.3	26
23	Large-Scale Image Geo-Localization Using Dominant Sets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 148-161.	9.7	26
24	Multimedia surveillance. , 2006, , .		25
25	Semantic adaptation of sport videos with user-centred performance analysis. IEEE Transactions on Multimedia, 2006, 8, 433-443.	5.2	24
26	Consistent Labeling for Multi-camera Object Tracking. Lecture Notes in Computer Science, 2005, , 1206-1214.	1.0	24
27	FaceMouse: A Human-Computer Interface for Tetraplegic People. Lecture Notes in Computer Science, 2006, , 99-108.	1.0	24
28	Posture classification in a multi-camera indoor environment. , 2005, , .		23
29	Real-time motion segmentation from moving cameras. Real Time Imaging, 2004, 10, 127-143.	1.6	22
30	Role of Artificial Intelligence in Fighting Antimicrobial Resistance in Pediatrics. Antibiotics, 2020, 9, 767.	1.5	22
31	A complete hand-drawn sketch vectorization framework. Multimedia Tools and Applications, 2019, 78, 19083-19113.	2.6	20
32	Contextual Information and Covariance Descriptors for People Surveillance: An Application for Safety of Construction Workers. Eurasip Journal on Image and Video Processing, 2011, 2011, 1-16.	1.7	19
33	Multi-stage Sampling with Boosting Cascades for Pedestrian Detection in Images and Videos. Lecture Notes in Computer Science, 2010, , 196-209.	1.0	18
34	A technology platform for automatic high-level tennis game analysis. Computer Vision and Image Understanding, 2017, 159, 164-175.	3.0	17
35	A Comparative Evaluation of Regression Learning Algorithms for Facial Age Estimation. Lecture Notes in Computer Science, 2015, , 133-144.	1.0	16
36	Facial Age Estimation Through the Fusion of Texture and Local Appearance Descriptors. Lecture Notes in Computer Science, 2015, , 667-681.	1.0	15

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37	Low-Latency Live Video Streaming over Low-Capacity Networks. , 2006, , .		14
38	Mutual calibration of camera motes and RFIDs for people localization and identification. , 2010, , .		14
39	An automated picking workstation for healthcare applications. Computers and Industrial Engineering, 2013, 64, 653-668.	3.4	14
40	An Energy Saving Road Sweeper Using Deep Vision for Garbage Detection. Applied Sciences (Switzerland), 2020, 10, 8146.	1.3	14
41	MetalGAN: Multi-domain label-less image synthesis using cGANs and meta-learning. Neural Networks, 2020, 131, 185-200.	3.3	14
42	SEMANTIC VIDEO TRANSCODING USING CLASSES OF RELEVANCE. International Journal of Image and Graphics, 2003, 03, 145-169.	1.2	13
43	A system for automatic face obscuration for privacy purposes. Pattern Recognition Letters, 2006, 27, 1809-1815.	2.6	13
44	Multi-object tracking using dominant sets. IET Computer Vision, 2016, 10, 289-298.	1.3	13
45	An Accurate System for Fashion Hand-Drawn Sketches Vectorization. , 2017, , .		13
46	Action Signature: A Novel Holistic Representation for Action Recognition. , 2008, , .		12
47	An accurate retrieval through R-MAC+ descriptors for landmark recognition. , 2018, , .		12
48	A Distributed Outdoor Video Surveillance System for Detection of Abnormal People Trajectories. , 2007, , .		11
49	Covariance descriptors on moving regions for human detection in very complex outdoor scenes. , 2009, , .		11
50	Telemedicine for management of paediatric infectious diseases during COVID-19 outbreak. Journal of Clinical Virology, 2020, 129, 104522.	1.6	11
51	Neighbor Cache Prefetching for Multimedia Image and Video Processing. IEEE Transactions on Multimedia, 2004, 6, 539-552.	5.2	10
52	Entry edge of field of view for multi-camera tracking in distributed video surveillance. , 0, , .		10
53	An Integrated Framework for Semantic Annotation and Adaptation. Multimedia Tools and Applications, 2005, 26, 345-363.	2.6	9
54	Predictive and Probabilistic Tracking to Detect Stopped Vehicles. , 2005, , .		9

#	ARTICLE	IF	CITATIONS
55	A semi-automatic system for segmentation of cardiac M-mode images. Pattern Analysis and Applications, 2006, 9, 293-306.	3.1	9
56	A location-aware embedding technique for accurate landmark recognition. , 2017, , .		9
57	A Dynamic Programming Technique for Classifying Trajectories. , 2007, , .		8
58	Pervasive Self-Learning with Multi-modal Distributed Sensors. , 2008, , .		8
59	Improving Data Prefetching Efficacy in Multimedia Applications. Multimedia Tools and Applications, 2003, 20, 159-178.	2.6	7
60	Integrating Consumer Smart Cameras into Camera Networks: Opportunities and Obstacles. Computer, 2014, 47, 45-51.	1.2	7
61	Enabling technologies on hybrid camera networks for behavioral analysis of unattended indoor environments and their surroundings. , 2008, , .		6
62	Energy-efficient feedback tracking on embedded smart cameras by hardware-level optimization. , 2011, , .		6
63	An Efficient Approximate kNN Graph Method for Diffusion on Image Retrieval. Lecture Notes in Computer Science, 2019, , 537-548.	1.0	6
64	Video surveillance and multimedia forensics. , 2009, , .		6
65	Object and event detection for semantic annotation and transcoding. , 2003, , .		5
66	Fast Dynamic Mosaicing and Person Following. , 2006, , .		5
67	On the design of embedded solutions to banknote recognition. Optical Engineering, 2013, 52, 093106.	0.5	5
68	Learning People Trajectories Using Semi-directional Statistics. , 2009, , .		4
69	A multi-stage pedestrian detection using monolithic classifiers. , 2011, , .		4
70	A reasoning engine for intruders' localization in wide open areas using a network of cameras and RFIDs. , 2011, , .		4
71	Object-based and event-based semantic video adaptation. , 2004, , .		3
72	Group Detection at Camera Handoff for Collecting People Appearance in Multi-camera Systems. , 2006, , .		3

#	ARTICLE	IF	CITATIONS
73	Mobile video surveillance with low-bandwidth low-latency video streaming. , 2007, , .		3
74	A people counting system for business analytics. , 2013, , .		3
75	Simultaneous clustering and outlier detection using dominant sets. , 2016, , .		3
76	Landmark Recognition: From Small-Scale to Large-Scale Retrieval. Studies in Computational Intelligence, 2019, , 237-259.	0.7	3
77	A Dense-Depth Representation for VLAD Descriptors in Content-Based Image Retrieval. Lecture Notes in Computer Science, 2018, , 662-671.	1.0	3
78	ELLIPSE DETECTION ON EMBRYO IMAGING USING RANDOM SAMPLE CONSENSUS (RANSAC) METHOD BASED ON ARC SEGMENT. International Journal on Smart Sensing and Intelligent Systems, 2016, 9, 1384-1409.	0.4	3
79	Recursively Refined R-CNN: Instance Segmentation with Self-RoI Rebalancing. Lecture Notes in Computer Science, 2021, , 476-486.	1.0	3
80	LDD: A Grape Diseases Dataset Detection and Instance Segmentation. Lecture Notes in Computer Science, 2022, , 383-393.	1.0	3
81	Steering wheel's angle tracking from camera-car. , 0, , .		2
82	A markerless approach for consistent action recognition in a multi-camera system. , 2008, , .		2
83	A fast multi-model approach for object duplicate extraction. , 2009, , .		2
84	Lightweight sign recognition for mobile devices. , 2013, , .		2
85	A Mobile Vision System for Fast and Accurate Ellipse Detection. , 2013, , .		2
86	Guest Editorial Computational and Smart Cameras. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2013, 3, 121-124.	2.7	2
87	A Real-Time Approach for Automatic Food Quality Assessment Based on Shape Analysis. International Journal of Computational Intelligence and Applications, 0, , 2150019.	0.6	2
88	Introduction to the Special Section on In-Vehicle Computer Vision Systems. IEEE Transactions on Vehicular Technology, 2004, 53, 1633-1635.	3.9	1
89	Unsupervised learning in body-area networks. , 2010, , .		1
90	Editorial to the "pattern recognition and artificial intelligence for human behaviour analysis" special section. Expert Systems, 2013, 30, 99-100.	2.9	1

#	ARTICLE	IF	CITATIONS
91	Multimodal feedback fusion of laser, image and temporal information. , 2014, , .		1
92	Guest Editorial Special Issue on Distributed Smart Sensing for Mobile Vision. IEEE Sensors Journal, 2015, 15, 2631-2631.	2.4	1
93	Editorial introduction to the special issue on "Image Understanding for Real-World Distributed Video Networks" Computer Vision and Image Understanding Journal. Computer Vision and Image Understanding, 2015, 134, 46-47.	3.0	1
94	Bag of indexes: a multi-index scheme for efficient approximate nearest neighbor search. Multimedia Tools and Applications, 2021, 80, 23135-23156.	2.6	1
95	LSH kNN graph for diffusion on image retrieval. Information Retrieval, 2021, 24, 114-136.	1.6	1
96	Statistical Pattern Recognition for Multi-Camera Detection, Tracking, and Trajectory Analysis. , 2009, , 389-413.		1
97	Auto-iris compensation for traffic surveillance systems. , 0, , .		0
98	On the usefulness of object shape coding with MPEG-4. , 0, , .		0
99	An Open Source Architecture for Low-Latency Video Streaming on PDAs. , 2007, , .		0
100	Expert environments: machine intelligence methods for ambient intelligence. Expert Systems, 2007, 24, 293-294.	2.9	0
101	Commentary Paper 2 on "A Localized Approach to Abandoned Luggage Detection with Foreground-Mask Sampling". , 2008, , .		0
102	ACM multimedia 2008. , 2008, , .		0
103	Alignment-Based Similarity of People Trajectories Using Semi-directional Statistics. , 2010, , .		0
104	Polar representation of covariance descriptors for circular features. Electronics Letters, 2010, 46, 1063.	0.5	0
105	Perspective and appearance context for people surveillance in open areas. , 2010, , .		0
106	A real-time embedded solution for skew correction in banknote analysis. , 2011, , .		0
107	Energy-efficient foreground object detection on embedded smart cameras by hardware-level operations. , 2011, , .		0
108	Identification of intruders in groups of people using cameras and RFIDs. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
109	Integrate tool for online analysis and offline mining of people trajectories. IET Computer Vision, 2012, 6, 334.	1.3	0
110	Introduction of New Associate Editors. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 253-263.	5.6	0
111	Acknowledgment of JAISE reviewers. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 281-282.	0.8	0
112	Acknowledgment of JAISE reviewers. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 99-100.	0.8	0
113	Diffusion Parameters Analysis in a Content-Based Image Retrieval Task for Mobile Vision. Sensors, 2020, 20, 4449.	2.1	0
114	Moving Pixels in Static Cameras: Detecting Dangerous Situations due to Environment or People. Studies in Computational Intelligence, 2010, , 1-28.	0.7	0
115	Distributed Mobile Computer Vision: Advances, Challenges and Applications. , 2014, , 93-120.		0
116	Video Transcoding and Streaming for Mobile Applications. , 2007, , 262-267.		0