

# Cosimo Distante

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

2,072  
citations

279701

23  
h-index

265120

42  
g-index

129  
all docs

129  
docs citations

129  
times ranked

2225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate data driven prediction of COVID-19 dynamics: Towards new results with temperature, humidity and air quality data. Environmental Research, 2022, 204, 112348.	3.7	12
2	Video-Based Automatic Baby Motion Analysis for Early Neurological Disorder Diagnosis: State of the Art and Future Directions. Sensors, 2022, 22, 866.	2.1	16
3	Epidemiology Forecasting of COVID-19 Using AI – A Survey. , 2022, , 89-120.		3
4	A Lightweight Model for Satellite Pose Estimation. Lecture Notes in Computer Science, 2022, , 3-14.	1.0	1
5	Improving Colon Carcinoma Grading by Advanced CNN Models. Lecture Notes in Computer Science, 2022, , 233-244.	1.0	2
6	Human Action Recognition with Transformers. Lecture Notes in Computer Science, 2022, , 230-241.	1.0	0
7	A Systematic Investigation on Deep Architectures for Automatic Skin Lesions Classification. , 2021, , .		5
8	COVID-19 Recognition Using Ensemble-CNNs in Two New Chest X-ray Databases. Sensors, 2021, 21, 1742.	2.1	41
9	Two Ensemble-CNN Approaches for Colorectal Cancer Tissue Type Classification. Journal of Imaging, 2021, 7, 51.	1.7	29
10	CNR-IEMN: A Deep Learning Based Approach to Recognise Covid-19 from CT-Scan. , 2021, , .		18
11	Emotional Expression in Children With ASD: A Pre-Study on a Two-Group Pre-Post-Test Design Comparing Robot-Based and Computer-Based Training. Frontiers in Psychology, 2021, 12, 678052.	1.1	12
12	Recognition of COVID-19 from CT Scans Using Two-Stage Deep-Learning-Based Approach: CNR-IEMN. Sensors, 2021, 21, 5878.	2.1	18
13	Per-COVID-19: A Benchmark Dataset for COVID-19 Percentage Estimation from CT-Scans. Journal of Imaging, 2021, 7, 189.	1.7	18
14	Web Based Methodology for Holographic Learning on Microscopy Patterns Recognition. , 2021, , .		1
15	Deep Learning based Eye gaze estimation and prediction. , 2021, , .		4
16	Dense descriptor for visual tracking and robust update model strategy. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3089-3099.	3.3	8
17	Microplastic Identification via Holographic Imaging and Machine Learning. Advanced Intelligent Systems, 2020, 2, 1900153.	3.3	88
18	Ocular Biometrics Recognition by Analyzing Human Exploration during Video Observations. Applied Sciences (Switzerland), 2020, 10, 4548.	1.3	1

#	ARTICLE	IF	CITATIONS
19	When I Look into Your Eyes: A Survey on Computer Vision Contributions for Human Gaze Estimation and Tracking. <i>Sensors</i> , 2020, 20, 3739.	2.1	44
20	A Siamese Neural Network for Non-Invasive Baggage Re-Identification. <i>Journal of Imaging</i> , 2020, 6, 126.	1.7	4
21	Learning Diatoms Classification from a Dry Test Slide by Holographic Microscopy. <i>Sensors</i> , 2020, 20, 6353.	2.1	22
22	Forecasting Covid-19 Dynamics in Brazil: A Data Driven Approach. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5115.	1.2	51
23	Handbook of Image Processing and Computer Vision. , 2020, , .		8
24	Handbook of Image Processing and Computer Vision. , 2020, , .		4
25	Handbook of Image Processing and Computer Vision. , 2020, , .		1
26	Analysis of Facial Information for Healthcare Applications: A Survey on Computer Vision-Based Approaches. <i>Information (Switzerland)</i> , 2020, 11, 128.	1.7	39
27	MH-MetroNet – A Multi-Head CNN for Passenger-Crowd Attendance Estimation. <i>Journal of Imaging</i> , 2020, 6, 62.	1.7	6
28	Covid-19 Outbreak Progression in Italian Regions: Approaching the Peak by the End of March in Northern Italy and First Week of April in Southern Italy. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3025.	1.2	85
29	Using Neural Networks to Compute Time Offsets from Musical Instruments. <i>AES: Journal of the Audio Engineering Society</i> , 2020, 68, 157-167.	0.8	2
30	Shape from Shading. , 2020, , 413-478.		1
31	Paradigms for 3D Vision. , 2020, , 315-411.		1
32	Object Recognition. , 2020, , 1-192.		0
33	Radiometric Model. , 2020, , 57-77.		0
34	Image Formation Process. , 2020, , 1-56.		2
35	Digitization and Image Display. , 2020, , 211-292.		0
36	Properties of the Digital Image. , 2020, , 293-316.		0

#	ARTICLE	IF	CITATIONS
37	Motion Analysis. , 2020, , 479-598.		0
38	Detectors and Descriptors of Interest Points. , 2020, , 333-424.		0
39	Image Enhancement Techniques. , 2020, , 387-484.		0
40	Reconstruction of the Degraded Image: Restoration. , 2020, , 209-269.		0
41	Fundamental Linear Transforms. , 2020, , 69-147.		0
42	Optical System. , 2020, , 177-209.		0
43	Representation and Description of Forms. , 2020, , 341-386.		0
44	RBF, SOM, Hopfield, and Deep Neural Networks. , 2020, , 193-260.		0
45	Camera Calibration and 3D Reconstruction. , 2020, , 599-667.		5
46	Texture Analysis. , 2020, , 261-314.		0
47	Computational Analysis of Deep Visual Data for Quantifying Facial Expression Production. Applied Sciences (Switzerland), 2019, 9, 4542.	1.3	26
48	Video Indexing Using Face Appearance and Shot Transition Detection. , 2019, , .		2
49	A new annotated dataset for boat detection and re-identification. , 2019, , .		7
50	Classification of Skin Lesions by Combining Multilevel Learnings in a DenseNet Architecture. Lecture Notes in Computer Science, 2019, , 335-344.	1.0	32
51	High-accuracy identification of micro-plastics by holographic microscopy enabled support vector machine. , 2019, , .		2
52	Convolutional neural networks for recognition and segmentation of aluminum profiles. , 2019, , .		6
53	Identification and classification of biological micro-organisms by holographic learning. , 2019, , .		4
54	Characterization of microplastics by holographic features for automatic detection in heterogeneous samples. , 2019, , .		2

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55	Image acquisition, evaluation and segmentation of thermal cutting edges using a mobile device. , 2019, , .		1
56	How holographic imaging can improve machine learning. , 2019, , .		2
57	Study of Mechanisms of Social Interaction Stimulation in Autism Spectrum Disorder by Assisted Humanoid Robot. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 993-1004.	2.6	24
58	Automatic visual monitoring of welding procedure in stainless steel kegs. Optics and Lasers in Engineering, 2018, 104, 220-231.	2.0	20
59	Computational Assessment of Facial Expression Production in ASD Children. Sensors, 2018, 18, 3993.	2.1	49
60	Strategies for reducing speckle noise in digital holography. Light: Science and Applications, 2018, 7, 48.	7.7	182
61	An Ecological Visual Exploration Tool to Support the Analysis of Visual Processing Pathways in Children with Autism Spectrum Disorders. Journal of Imaging, 2018, 4, 9.	1.7	3
62	Robust Estimation of Object Dimensions and External Defect Detection with a Low-Cost Sensor. Journal of Nondestructive Evaluation, 2017, 36, 1.	1.1	10
63	Assistive Robot, RGB-D Sensor and Graphical User Interface to Encourage Communication Skills in ASD Population. Journal of Medical Robotics Research, 2017, 02, 1740002.	1.0	5
64	A Computer Vision Based Approach for Understanding Emotional Involvements in Children with Autism Spectrum Disorders. , 2017, , .		18
65	Multi-branch CNN for Multi-scale Age Estimation. Lecture Notes in Computer Science, 2017, , 234-244.	1.0	3
66	On the Estimation of Childrenâ€™s Poses. Lecture Notes in Computer Science, 2017, , 410-421.	1.0	10
67	Assessment of deep learning for gender classification on traditional datasets. , 2016, , .		4
68	A low-cost and calibration-free gaze estimator for soft biometrics: An explorative study. Pattern Recognition Letters, 2016, 82, 196-206.	2.6	8
69	Intelligent Vision System for ASD Diagnosis and Assessment. Lecture Notes in Computer Science, 2016, , 534-546.	1.0	0
70	Iris Segmentation: A New Strategy for Real Biometric Applications. Mathematics in Industry, 2016, , 9-16.	0.1	0
71	Non-intrusive and calibration free visual exploration analysis in children with Autism Spectrum Disorder. , 2015, , 201-207.		4
72	Facial expression recognition and histograms of oriented gradients: a comprehensive study. SpringerPlus, 2015, 4, 645.	1.2	112

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73	Soft Biometrics for a Socially Assistive Robotic Platform. Paladyn, 2015, 6, .	1.9	3
74	Automatic Emotion Recognition in Robot-Children Interaction for ASD Treatment. , 2015, , .		30
75	A study on different experimental configurations for age, race, and gender estimation problems. Eurasip Journal on Image and Video Processing, 2015, 2015, .	1.7	21
76	Coding Color Three-Dimensional Scenes and Joining Different Objects by Adaptive Transformations in Digital Holography. Journal of Display Technology, 2015, 11, 854-860.	1.3	11
77	Analysis of HOG Suitability for Facial Traits Description in FER Problems. Lecture Notes in Computer Science, 2015, , 460-471.	1.0	2
78	Improved Performance in Facial Expression Recognition Using 32 Geometric Features. Lecture Notes in Computer Science, 2015, , 518-528.	1.0	13
79	Color holograms synthesis framework for three-dimensional scene reconstruction. , 2015, , .		0
80	Randomized circle detection with isophotes curvature analysis. Pattern Recognition, 2015, 48, 411-421.	5.1	47
81	A Minimax Framework for Gender Classification Based on Small-Sized Datasets. Lecture Notes in Computer Science, 2015, , 415-427.	1.0	1
82	Soft Biometrics by Modeling Temporal Series of Gaze Cues Extracted in the Wild. Lecture Notes in Computer Science, 2015, , 391-402.	1.0	2
83	Visual Tracking by using dense local descriptors. , 2015, , .		0
84	Automatic Joint Attention Detection During Interaction with a Humanoid Robot. Lecture Notes in Computer Science, 2015, , 124-134.	1.0	1
85	Visual Interaction Including Biometrics Information for a Socially Assistive Robotic Platform. Lecture Notes in Computer Science, 2015, , 391-406.	1.0	2
86	BRISK Local Descriptors for Heavily Occluded Ball Recognition. Lecture Notes in Computer Science, 2015, , 172-182.	1.0	0
87	Unsupervised Eye Pupil Localization through Differential Geometry and Local Self-Similarity Matching. PLoS ONE, 2014, 9, e102829.	1.1	49
88	An Investigation on the Feasibility of Uncalibrated and Unconstrained Gaze Tracking for Human Assistive Applications by Using Head Pose Estimation. Sensors, 2014, 14, 8363-8379.	2.1	90
89	An Efficient Approach for Preprocessing Data from a Large-Scale Chemical Sensor Array. Sensors, 2014, 14, 17786-17806.	2.1	4
90	Highly Usable and Accurate Iris Segmentation. , 2014, , .		6

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91	Multilevel bidimensional empirical mode decomposition: a new speckle reduction method in digital holography. <i>Optical Engineering</i> , 2014, 53, 112314.	0.5	21
92	Real-Time Gender Based Behavior System for Human-Robot Interaction. <i>Lecture Notes in Computer Science</i> , 2014, , 74-83.	1.0	6
93	Features Descriptors for Demographic Estimation: A Comparative Study. <i>Lecture Notes in Computer Science</i> , 2014, , 66-85.	1.0	3
94	Pervasive Retail Strategy Using a Low-Cost Free Gaze Estimation System. <i>Lecture Notes in Computer Science</i> , 2014, , 23-39.	1.0	2
95	Unsupervised approach for the accurate localization of the pupils in near-frontal facial images. <i>Journal of Electronic Imaging</i> , 2013, 22, 033033.	0.5	23
96	Circularity and self-similarity analysis for the precise location of the pupils. , 2013, , .		1
97	Notes on a Robust Plane Detection Approach in 3D.. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 205-210.	0.4	1
98	Soccer Ball Detection with Isophotes Curvature Analysis. <i>Lecture Notes in Computer Science</i> , 2013, , 793-802.	1.0	3
99	A Fully Automatic Approach for the Accurate Localization of the Pupils. <i>Lecture Notes in Computer Science</i> , 2013, , 503-512.	1.0	0
100	RANSAC-LEL: An optimized version with least entropy like estimators. , 2011, , .		9
101	Robust 3D Plane Estimation for Autonomous Vehicle Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 79-84.	0.4	2
102	An application of mobile robotics for olfactory monitoring of hazardous industrial sites. <i>Industrial Robot</i> , 2009, 36, 51-59.	1.2	20
103	Application of a gas sensors array to the detection of fuel as contamination defect in engine oil. , 2008, , .		4
104	Recovery of drifting sensor responses by means of DWT analysis. <i>Sensors and Actuators B: Chemical</i> , 2007, 120, 411-416.	4.0	30
105	A shadow elimination approach in video-surveillance context. <i>Pattern Recognition Letters</i> , 2006, 27, 345-355.	2.6	23
106	IEEE1451.4: A way to standardize gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 141-151.	4.0	45
107	Drift counteraction with multiple self-organising maps for an electronic nose. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 305-317.	4.0	101
108	Support vector machines for olfactory signals recognition. <i>Sensors and Actuators B: Chemical</i> , 2003, 88, 30-39.	4.0	115

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109	Dynamic Cluster Recognition with Multiple Self-Organising Maps. Pattern Analysis and Applications, 2002, 5, 306-315.	3.1	34
110	On the study of feature extraction methods for an electronic nose. Sensors and Actuators B: Chemical, 2002, 87, 274-288.	4.0	160
111	<title>Rail defect classification by adaptive self-organized map</title>. , 2001, , .		3
112	Odor discrimination using adaptive resonance theory. Sensors and Actuators B: Chemical, 2000, 69, 248-252.	4.0	27
113	Target Reaching by Using Visual Information and Q-learning Controllers. Autonomous Robots, 2000, 9, 41-50.	3.2	16