# Cosimo Distante

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | Strategies for reducing speckle noise in digital holography. Light: Science and Applications, 2018, 7, 48. | 7.7 | 182 |
| 2 | On the study of feature extraction methods for an electronic nose. Sensors and Actuators B: Chemical, 2002, 87, 274-288. | 4.0 | 160 |
| 3 | Support vector machines for olfactory signals recognition. Sensors and Actuators B: Chemical, 2003, 88, 30-39. | 4.0 | 115 |
| 4 | Facial expression recognition and histograms of oriented gradients: a comprehensive study. SpringerPlus, 2015, 4, 645. | 1.2 | 112 |
| 5 | Drift counteraction with multiple self-organising maps for an electronic nose. Sensors and Actuators B: Chemical, 2004, 98, 305-317. | 4.0 | 101 |
| 6 | 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 |
| 7 | Microplastic Identification via Holographic Imaging and Machine Learning. Advanced Intelligent Systems, 2020, 2, 1900153. | 3.3 | 88 |
| 8 | 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. International Journal of Environmental Research and Public Health, 2020, 17, 3025. | 1.2 | 85 |
| 9 | Forecasting Covid-19 Dynamics in Brazil: A Data Driven Approach. International Journal of Environmental Research and Public Health, 2020, 17, 5115. | 1.2 | 51 |
| 10 | Unsupervised Eye Pupil Localization through Differential Geometry and Local Self-Similarity Matching. PLoS ONE, 2014, 9, e102829. | 1.1 | 49 |
| 11 | Computational Assessment of Facial Expression Production in ASD Children. Sensors, 2018, 18, 3993. | 2.1 | 49 |
| 12 | Randomized circle detection with isophotes curvature analysis. Pattern Recognition, 2015, 48, 411-421. | 5.1 | 47 |
| 13 | IEEE1451.4: A way to standardize gas sensor. Sensors and Actuators B: Chemical, 2006, 114, 141-151. | 4.0 | 45 |
| 14 | When I Look into Your Eyes: A Survey on Computer Vision Contributions for Human Gaze Estimation and Tracking. Sensors, 2020, 20, 3739. | 2.1 | 44 |
| 15 | COVID-19 Recognition Using Ensemble-CNNs in Two New Chest X-ray Databases. Sensors, 2021, 21, 1742. | 2.1 | 41 |
| 16 | Analysis of Facial Information for Healthcare Applications: A Survey on Computer Vision-Based Approaches. Information (Switzerland), 2020, 11, 128. | 1.7 | 39 |
| 17 | Dynamic Cluster Recognition with Multiple Self-Organising Maps. Pattern Analysis and Applications, 2002, 5, 306-315. | 3.1 | 34 |
| 18 | Classification of Skin Lesions by Combining Multilevel Learnings in a DenseNet Architecture. Lecture Notes in Computer Science, 2019, , 335-344. | 1.0 | 32 |

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| 19 | Recovery of drifting sensor responses by means of DWT analysis. Sensors and Actuators B: Chemical, 2007, 120, 411-416. | 4.0 | 30 |
| 20 | Automatic Emotion Recognition in Robot-Children Interaction for ASD Treatment. , 2015, , . | | 30 |
| 21 | Two Ensemble-CNN Approaches for Colorectal Cancer Tissue Type Classification. Journal of Imaging, 2021, 7, 51. | 1.7 | 29 |
| 22 | Odor discrimination using adaptive resonance theory. Sensors and Actuators B: Chemical, 2000, 69, 248-252. | 4.0 | 27 |
| 23 | Computational Analysis of Deep Visual Data for Quantifying Facial Expression Production. Applied Sciences (Switzerland), 2019, 9, 4542. | 1.3 | 26 |
| 24 | 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 |
| 25 | A shadow elimination approach in video-surveillance context. Pattern Recognition Letters, 2006, 27, 345-355. | 2.6 | 23 |
| 26 | Unsupervised approach for the accurate localization of the pupils in near-frontal facial images. Journal of Electronic Imaging, 2013, 22, 033033. | 0.5 | 23 |
| 27 | Learning Diatoms Classification from a Dry Test Slide by Holographic Microscopy. Sensors, 2020, 20, 6353. | 2.1 | 22 |
| 28 | Multilevel bidimensional empirical mode decomposition: a new speckle reduction method in digital holography. Optical Engineering, 2014, 53, 112314. | 0.5 | 21 |
| 29 | 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 |
| 30 | An application of mobile robotics for olfactory monitoring of hazardous industrial sites. Industrial Robot, 2009, 36, 51-59. | 1.2 | 20 |
| 31 | Automatic visual monitoring of welding procedure in stainless steel kegs. Optics and Lasers in Engineering, 2018, 104, 220-231. | 2.0 | 20 |
| 32 | A Computer Vision Based Approach for Understanding Emotional Involvements in Children with Autism Spectrum Disorders. , 2017, , . | | 18 |
| 33 | CNR-IEMN: A Deep Learning Based Approach to Recognise Covid-19 from CT-Scan. , 2021, , . | | 18 |
| 34 | Recognition of COVID-19 from CT Scans Using Two-Stage Deep-Learning-Based Approach: CNR-IEMN. Sensors, 2021, 21, 5878. | 2.1 | 18 |
| 35 | Per-COVID-19: A Benchmark Dataset for COVID-19 Percentage Estimation from CT-Scans. Journal of Imaging, 2021, 7, 189. | 1.7 | 18 |
| 36 | Target Reaching by Using Visual Information and Q-learning Controllers. Autonomous Robots, 2000, 9, 41-50. | 3.2 | 16 |

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|---|---------|-----|-----------|
| 37 | 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 |
| 38 | Improved Performance in Facial Expression Recognition Using 32 Geometric Features. Lecture Notes in Computer Science, 2015, , 518-528. | 1.0 | 13 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Robust Estimation of Object Dimensions and External Defect Detection with a Low-Cost Sensor. Journal of Nondestructive Evaluation, 2017, 36, 1. | 1.1 | 10 |
| 43 | On the Estimation of Children's Poses. Lecture Notes in Computer Science, 2017, , 410-421. | 1.0 | 10 |
| 44 | RANSAC-LEL: An optimized version with least entropy like estimators. , 2011, , . | | 9 |
| 45 | A low-cost and calibration-free gaze estimator for soft biometrics: An explorative study. Pattern Recognition Letters, 2016, 82, 196-206. | 2.6 | 8 |
| 46 | Dense descriptor for visual tracking and robust update model strategy. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3089-3099. | 3.3 | 8 |
| 47 | Handbook of Image Processing and Computer Vision. , 2020, , . | | 8 |
| 48 | A new annotated dataset for boat detection and re-identification. , 2019, , . | | 7 |
| 49 | Highly Usable and Accurate Iris Segmentation. , 2014, , . | | 6 |
| 50 | MH-MetroNet—A Multi-Head CNN for Passenger-Crowd Attendance Estimation. Journal of Imaging, 2020, 6, 62. | 1.7 | 6 |
| 51 | Real-Time Gender Based Behavior System for Human-Robot Interaction. Lecture Notes in Computer Science, 2014, , 74-83. | 1.0 | 6 |
| 52 | Convolutional neural networks for recognition and segmentation of aluminum profiles. , 2019, , . | | 6 |
| 53 | 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 |
| 54 | A Systematic Investigation on Deep Architectures for Automatic Skin Lesions Classification. , 2021, , . | | 5 |

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|---|---------|----|-----------|
| 55 | Camera Calibration and 3D Reconstruction. , 2020, , 599-667. | | 5 |
| 56 | Application of a gas sensors array to the detection of fuel as contamination defect in engine oil. , 2008, , . | | 4 |
| 57 | An Efficient Approach for Preprocessing Data from a Large-Scale Chemical Sensor Array. Sensors, 2014, 14, 17786-17806. | 2.1 | 4 |
| 58 | Non-intrusive and calibration free visual exploration analysis in children with Autism Spectrum Disorder. , 2015, , 201-207. | | 4 |
| 59 | Assessment of deep learning for gender classification on traditional datasets. , 2016, , . | | 4 |
| 60 | A Siamese Neural Network for Non-Invasive Baggage Re-Identification. Journal of Imaging, 2020, 6, 126. | 1.7 | 4 |
| 61 | Handbook of Image Processing and Computer Vision. , 2020, , . | | 4 |
| 62 | Identification and classification of biological micro-organisms by holographic learning. , 2019, , . | | 4 |
| 63 | Deep Learning based Eye gaze estimation and prediction. , 2021, , . | | 4 |
| 64 | <title>Rail defect classification by adaptive self-organized map</title>. , 2001, , . | | 3 |
| 65 | Soft Biometrics for a Socially Assistive Robotic Platform. Paladyn, 2015, 6, . | 1.9 | 3 |
| 66 | 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 |
| 67 | Features Descriptors for Demographic Estimation: A Comparative Study. Lecture Notes in Computer Science, 2014, , 66-85. | 1.0 | 3 |
| 68 | Multi-branch CNN for Multi-scale Age Estimation. Lecture Notes in Computer Science, 2017, , 234-244. | 1.0 | 3 |
| 69 | Soccer Ball Detection with Isophotes Curvature Analysis. Lecture Notes in Computer Science, 2013, , 793-802. | 1.0 | 3 |
| 70 | Epidemiology Forecasting ofÂCOVID-19 Using AIâ€"A Survey. , 2022, , 89-120. | | 3 |
| 71 | Robust 3D Plane Estimation for Autonomous Vehicle Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 79-84. | 0.4 | 2 |
| 72 | Analysis of HOG Suitability for Facial Traits Description in FER Problems. Lecture Notes in Computer Science, 2015, , 460-471. | 1.0 | 2 |

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| 73 | Video Indexing Using Face Appearance and Shot Transition Detection. , 2019, , . | | 2 |
| 74 | Using Neural Networks to Compute Time Offsets from Musical Instruments. AES: Journal of the Audio Engineering Society, 2020, 68, 157-167. | 0.8 | 2 |
| 75 | High-accuracy identification of micro-plastics by holographic microscopy enabled support vector machine. , 2019, , . | | 2 |
| 76 | Pervasive Retail Strategy Using a Low-Cost Free Gaze Estimation System. Lecture Notes in Computer Science, 2014, , 23-39. | 1.0 | 2 |
| 77 | Soft Biometrics by Modeling Temporal Series of Gaze Cues Extracted in the Wild. Lecture Notes in Computer Science, 2015, , 391-402. | 1.0 | 2 |
| 78 | Visual Interaction Including Biometrics Information for a Socially Assistive Robotic Platform. Lecture Notes in Computer Science, 2015, , 391-406. | 1.0 | 2 |
| 79 | Characterization of microplastics by holographic features for automatic detection in heterogeneous samples. , 2019, , . | | 2 |
| 80 | How holographic imaging can improve machine learning. , 2019, , . | | 2 |
| 81 | Image Formation Process. , 2020, , 1-56. | | 2 |
| 82 | Improving Colon Carcinoma Grading byÂAdvanced CNN Models. Lecture Notes in Computer Science, 2022, , 233-244. | 1.0 | 2 |
| 83 | Circularity and self-similarity analysis for the precise location of the pupils. , 2013, , . | | 1 |
| 84 | Notes on a Robust Plane Detection Approach in 3D.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 205-210. | 0.4 | 1 |
| 85 | Ocular Biometrics Recognition by Analyzing Human Exploration during Video Observations. Applied Sciences (Switzerland), 2020, 10, 4548. | 1.3 | 1 |
| 86 | Handbook of Image Processing and Computer Vision. , 2020, , . | | 1 |
| 87 | A Minimax Framework for Gender Classification Based on Small-Sized Datasets. Lecture Notes in Computer Science, 2015, , 415-427. | 1.0 | 1 |
| 88 | Automatic Joint Attention Detection During Interaction with a Humanoid Robot. Lecture Notes in Computer Science, 2015, , 124-134. | 1.0 | 1 |
| 89 | Image acquisition, evaluation and segmentation of thermal cutting edges using a mobile device. , 2019, , . | | 1 |
| 90 | Shape from Shading. , 2020, , 413-478. | | 1 |

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| 91 | Paradigms for 3D Vision. , 2020, , 315-411. | | 1 |
| 92 | Web Based Methodology for Holographic Learning on Microscopy Patterns Recognition. , 2021, , . | | 1 |
| 93 | A Lightweight Model forÂSatellite Pose Estimation. Lecture Notes in Computer Science, 2022, , 3-14. | 1.0 | 1 |
| 94 | Color holograms synthesis framework for three-dimensional scene reconstruction. , 2015, , . | | 0 |
| 95 | A Fully Automatic Approach for the Accurate Localization of the Pupils. Lecture Notes in Computer Science, 2013, , 503-512. | 1.0 | 0 |
| 96 | Visual Tracking by using dense local descriptors. , 2015, , . | | 0 |
| 97 | BRISK Local Descriptors for Heavily Occluded Ball Recognition. Lecture Notes in Computer Science, 2015, , 172-182. | 1.0 | 0 |
| 98 | Intelligent Vision System for ASD Diagnosis and Assessment. Lecture Notes in Computer Science, 2016, , 534-546. | 1.0 | 0 |
| 99 | Iris Segmentation: A New Strategy for Real Biometric Applications. Mathematics in Industry, 2016, , 9-16. | 0.1 | 0 |
| 100 | Object Recognition. , 2020, , 1-192. | | 0 |
| 101 | Radiometric Model. , 2020, , 57-77. | | 0 |
| 102 | Digitization and Image Display. , 2020, , 211-292. | | 0 |
| 103 | Properties of the Digital Image. , 2020, , 293-316. | | 0 |
| 104 | Motion Analysis. , 2020, , 479-598. | | 0 |
| 105 | Detectors and Descriptors of Interest Points. , 2020, , 333-424. | | 0 |
| 106 | Image Enhancement Techniques. , 2020, , 387-484. | | 0 |
| 107 | Reconstruction of the Degraded Image: Restoration. , 2020, , 209-269. | | 0 |
| 108 | Fundamental Linear Transforms. , 2020, , 69-147. | | 0 |

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| 109 | Optical System. , 2020, , 177-209. | | 0 |
| 110 | Representation and Description of Forms. , 2020, , 341-386. | | 0 |
| 111 | RBF, SOM, Hopfield, and Deep Neural Networks. , 2020, , 193-260. | | 0 |
| 112 | Texture Analysis. , 2020, , 261-314. | | 0 |
| 113 | Human Action Recognition withÂTransformers. Lecture Notes in Computer Science, 2022, , 230-241. | 1.0 | 0 |