# Paolo Soda

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 114 papers | 1,915 citations | 361045<br>20 h-index | 301761<br>39 g-index |
| 119 all docs | 119 docs citations | 119 times ranked | 1899 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pareto optimization of deep networks for COVID-19 diagnosis from chest X-rays. Pattern Recognition, 2022, 121, 108242. | 5.1 | 14 |
| 2 | Artificial Intelligence in Bone Metastases: An MRI and CT Imaging Review. International Journal of Environmental Research and Public Health, 2022, 19, 1880. | 1.2 | 12 |
| 3 | MLOps: A Taxonomy and a Methodology. IEEE Access, 2022, 10, 63606-63618. | 2.6 | 18 |
| 4 | Grasping Inter-Attribute and Temporal Variability in Multivariate Time Series. IEEE Transactions on Big Data, 2021, 7, 885-892. | 4.4 | 1 |
| 5 | Positive tissue transglutaminase antibodies with negative endomysial antibodies: Unresolved issues in diagnosing celiac disease. Journal of Immunological Methods, 2021, 489, 112910. | 0.6 | 5 |
| 6 | Categorizing the feature space for two-class imbalance learning. , 2021, , . | | 0 |
| 7 | Visual4DTracker: a tool to interact with 3D + t image stacks. BMC Bioinformatics, 2021, 22, 53. | 1.2 | 1 |
| 8 | 3T MRI-Radiomic Approach to Predict for Lymph Node Status in Breast Cancer Patients. Cancers, 2021, 13, 2228. | 1.7 | 20 |
| 9 | Describing rumours: a comparative evaluation of two handcrafted representations for rumour detection. , 2021, , . | | 0 |
| 10 | Exploring Deep Pathomics in Lung Cancer. , 2021, , . | | 2 |
| 11 | A Multi-Expert System to Detect COVID-19 Cases in X-ray Images. , 2021, , . | | 5 |
| 12 | Representation and Knowledge Transfer for Health-related Rumour Detection. , 2021, , . | | 1 |
| 13 | The Impact of Tumor Edema on T2-Weighted 3T-MRI Invasive Breast Cancer Histological Characterization: A Pilot Radiomics Study. Cancers, 2021, 13, 4635. | 1.7 | 12 |
| 14 | Deep Reinforcement Learning for Fractionated Radiotherapy in Non-Small Cell Lung Carcinoma. Artificial Intelligence in Medicine, 2021, 119, 102137. | 3.8 | 8 |
| 15 | Rule-based space characterization for rumour detection in health. Engineering Applications of Artificial Intelligence, 2021, 105, 104389. | 4.3 | 4 |
| 16 | AIforCOVID: Predicting the clinical outcomes in patients with COVID-19 applying AI to chest-X-rays. An Italian multicentre study. Medical Image Analysis, 2021, 74, 102216. | 7.0 | 64 |
| 17 | Evaluating GANs in Medical Imaging. Lecture Notes in Computer Science, 2021, , 112-121. | 1.0 | 5 |
| 18 | On the Additional Information Provided by 3T-MRI ADC in Predicting Tumor Cellularity and Microscopic Behavior. Cancers, 2021, 13, 5167. | 1.7 | 5 |

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| 19 | ANA testing in 'real life'. Annals of the Rheumatic Diseases, 2020, 79, e3-e3. | 0.5 | 20 |
| 20 | Radiomics-Based Non-Invasive Lymph Node Metastases Prediction in Breast Cancer. , 2020, , . | | 4 |
| 21 | Radiomics-Based Prediction of Overall Survival in Lung Cancer Using Different Volumes-Of-Interest. Applied Sciences (Switzerland), 2020, 10, 6425. | 1.3 | 12 |
| 22 | Time-Window SIQR Analysis of COVID-19 Outbreak and Containment Measures in Italy. , 2020, , . | | 6 |
| 23 | On Using Meta-Features to Learn Under Class Skew in Biomedical Domains. , 2020, , . | | 0 |
| 24 | Auto-Regressive Time Delayed jump neural network for blood glucose levels forecasting. Knowledge-Based Systems, 2020, 203, 106134. | 4.0 | 17 |
| 25 | The new era of LED microscopes in immunofluorescence anti-nuclear antibody (ANA) testing. Clinical Chemistry and Laboratory Medicine, 2020, 58, e183-e184. | 1.4 | 3 |
| 26 | AI-based applications in hybrid imaging: how to build smart and truly multi-parametric decision models for radiomics. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2673-2699. | 3.3 | 29 |
| 27 | Early Radiomic Experiences in Classifying Prostate Cancer Aggressiveness using 3D Local Binary Patterns. , 2019, , . | | 4 |
| 28 | Early radiomics experiences in predicting CyberKnife response in acoustic neuroma. ACM SIGBioinformatics Record, 2019, 8, 11-13. | 0.3 | 3 |
| 29 | Early Experience in Forecasting Blood Glucose Levels Using a Delayed and Auto-Regressive Jump Neural Network. , 2019, , . | | 2 |
| 30 | On Autonomous Systems: From Reflexive, Imperative and Adaptive Intelligence to Autonomous and Cognitive Intelligence. , 2019, , . | | 11 |
| 31 | Radiomics for Distinguishing Myocardial Infarction from Myocarditis at Late Gadolinium Enhancement at MRI: Comparison with Subjective Visual Analysis. Radiology: Cardiothoracic Imaging, 2019, 1, e180026. | 0.9 | 20 |
| 32 | Tackling imbalance radiomics in acoustic neuroma. International Journal of Data Mining and Bioinformatics, 2019, 22, 365. | 0.1 | 6 |
| 33 | A computer-aided diagnosis system for HEp-2 fluorescence intensity classification. Artificial Intelligence in Medicine, 2019, 97, 71-78. | 3.8 | 13 |
| 34 | Analytical variability in the determination of anti-double-stranded DNA antibodies: the strong need of a better definition of the old and new tests. Immunologic Research, 2018, 66, 340-347. | 1.3 | 10 |
| 35 | Radiomics for Predicting CyberKnife response in acoustic neuroma: a pilot study. , 2018, , . | | 2 |
| 36 | Discovering COPD phenotyping via simultaneous feature selection and clustering. , 2018, , . | | 0 |

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| 37 | Cross-topic Rumour Detection in the Health Domain. , 2018, , . | | 3 |
| 38 | Early experiences in 4D quantitative analysis of insulin granules in living beta-cells. , 2018, , . | | 3 |
| 39 | A radiomic approach for adaptive radiotherapy in non-small cell lung cancer patients. PLoS ONE, 2018, 13, e0207455. | 1.1 | 48 |
| 40 | A decision support system for type 1 diabetes mellitus diagnostics based on dual channel analysis of red blood cell membrane fluidity. Computer Methods and Programs in Biomedicine, 2018, 162, 263-271. | 2.6 | 30 |
| 41 | Twitter rumour detection in the health domain. Expert Systems With Applications, 2018, 110, 33-40. | 4.4 | 67 |
| 42 | Hospital 4.0 and Its Innovation in Methodologies and Technologies. , 2018, , . | | 12 |
| 43 | Exploratory Radiomics for Predicting Adaptive Radiotherapy in Non-Small Cell Lung Cancer. , 2018, , . | | 6 |
| 44 | A Decision Support System for Tele-Monitoring COPD-Related Worrisome Events. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 296-302. | 3.9 | 19 |
| 45 | The inter-observer reading variability in anti-nuclear antibodies indirect (ANA) immunofluorescence test: A multicenter evaluation and a review of the literature. Autoimmunity Reviews, 2017, 16, 1224-1229. | 2.5 | 41 |
| 46 | The burden of the variability introduced by the HEp-2 assay kit and the CAD system in ANA indirect immunofluorescence test. Immunologic Research, 2017, 65, 345-354. | 1.3 | 24 |
| 47 | ECG databases for biometric systems: A systematic review. Expert Systems With Applications, 2017, 67, 189-202. | 4.4 | 89 |
| 48 | An automated and unobtrusive system for cough detection. , 2017, , . | | 11 |
| 49 | Feature selection and resampling in class imbalance learning: Which comes first? An empirical study in the biological domain. , 2017, , . | | 11 |
| 50 | Health-related rumour detection on Twitter. , 2017, , . | | 8 |
| 51 | Phase separation of the plasma membrane in human red blood cells as a potential tool for diagnosis and progression monitoring of type 1 diabetes mellitus. PLoS ONE, 2017, 12, e0184109. | 1.1 | 23 |
| 52 | Automatic Neuron Tracing Using a Locally Tunable Approach. , 2016, , . | | 1 |
| 53 | On Using Active Contour to Segment HEp-2 Cells. , 2016, , . | | 4 |
| 54 | Towards automated neuron tracing via global and local 3D image analysis. , 2016, , . | | 1 |

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| 55 | Early Experiences in Using Blood Cells Biomembranes as Markers for Diabetes Diagnosis. , 2016, , . | | 1 |
| 56 | Automated Neuron Tracing Methods: An Updated Account. Neuroinformatics, 2016, 14, 353-367. | 1.5 | 89 |
| 57 | A survey on using domain and contextual knowledge for human activity recognition in video streams. Expert Systems With Applications, 2016, 63, 97-111. | 4.4 | 71 |
| 58 | On the remote detection of COPD-related worrisome events. , 2016, , . | | 4 |
| 59 | Computer-based automatic identification of neurons in gigavoxel-sized 3D human brain images. , 2015, 2015, 7724-7. | | 2 |
| 60 | A multi-environment dataset for activity of daily living recognition in video streams. , 2015, 2015, 747-50. | | 1 |
| 61 | Quantitative neuroanatomy of all Purkinje cells with light sheet microscopy and high-throughput image analysis. Frontiers in Neuroanatomy, 2015, 9, 68. | 0.9 | 33 |
| 62 | Large-scale automated identification of mouse brain cells in confocal light sheet microscopy images. Bioinformatics, 2014, 30, i587-i593. | 1.8 | 61 |
| 63 | Early Experiences in COPD Exacerbation Detection. , 2014, , . | | 3 |
| 64 | The classification of Crithidia luciliae immunofluorescence test (CLIFT) using a novel automated system. Arthritis Research and Therapy, 2014, 16, R71. | 1.6 | 10 |
| 65 | Mitotic cells recognition in HEp-2 images. Pattern Recognition Letters, 2014, 45, 136-144. | 2.6 | 51 |
| 66 | Real-Time Biomedical Instance Selection. , 2014, , . | | 1 |
| 67 | BioImage Informatics: The challenge of knowledge extraction from biological images. , 2014, , . | | 2 |
| 68 | A HPC infrastructure for processing and visualizing neuro-anatomical images obtained by Confocal Light Sheet Microscopy. , 2014, , . | | 0 |
| 69 | Multiple subsequence combination in human action recognition. IET Computer Vision, 2014, 8, 26-34. | 1.3 | 8 |
| 70 | â€œReal-timeâ€•Instance Selection for Biomedical Data Classification. Lecture Notes in Computer Science, 2014, , 394-404. | 1.0 | 0 |
| 71 | Whole-body isometric force/torque measurements for functional assessment in neuro-rehabilitation: User interface and data pre-processing techniques. Computer Methods and Programs in Biomedicine, 2013, 110, 27-37. | 2.6 | 0 |
| 72 | Centromere and cytoplasmic staining pattern recognition: a local approach. Medical and Biological Engineering and Computing, 2013, 51, 1305-1314. | 1.6 | 8 |

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| 73 | Benchmarking HEp-2 Cells Classification Methods. IEEE Transactions on Medical Imaging, 2013, 32, 1878-1889. | 5.4 | 208 |
| 74 | Solving biomedical classification tasks by softmax reconstruction in ECOC framework. , 2013, , . | | 2 |
| 75 | Softmax Regression for ECOC Reconstruction. Lecture Notes in Computer Science, 2013, , 682-691. | 1.0 | 1 |
| 76 | A Slightly Supervised Approach for Positive/Negative Classification of Fluorescence Intensity in HEp-2 Images. Lecture Notes in Computer Science, 2013, , 319-328. | 1.0 | 2 |
| 77 | A classification-based approach to segment HEp-2 cells. , 2012, , . | | 21 |
| 78 | A bag of visual words approach for centromere and cytoplasmic staining pattern classification on HEp-2 images. , 2012, , . | | 10 |
| 79 | Trends in computer-based medical systems. ACM SIGHIT Record, 2012, 2, 46-50. | 0.5 | 0 |
| 80 | Polichotomies on Imbalanced Domains by One-per-Class Compensated Reconstruction Rule. Lecture Notes in Computer Science, 2012, , 301-309. | 1.0 | 1 |
| 81 | A Double-Ensemble Approach for Classifying Skewed Data Streams. Lecture Notes in Computer Science, 2012, , 254-265. | 1.0 | 1 |
| 82 | Biomedical Images Classification by Universal Nearest Neighbours Classifier Using Posterior Probability. Lecture Notes in Computer Science, 2012, , 119-127. | 1.0 | 2 |
| 83 | Color to grayscale staining pattern representation in IIF. , 2011, , . | | 26 |
| 84 | A decision support system for Crithidia Luciliae image classification. Artificial Intelligence in Medicine, 2011, 51, 67-74. | 3.8 | 18 |
| 85 | Novel opportunities in automated classification of antinuclear antibodies on HEp-2 cells. Autoimmunity Reviews, 2011, 10, 647-652. | 2.5 | 43 |
| 86 | A multi-objective optimisation approach for class imbalance learning. Pattern Recognition, 2011, 44, 1801-1810. | 5.1 | 74 |
| 87 | An efficient autofocus algorithm for indirect immunofluorescence applications. , 2011, , . | | 4 |
| 88 | Automatic Facial Expression Recognition Using Statistical-Like Moments. Lecture Notes in Computer Science, 2011, , 585-594. | 1.0 | 4 |
| 89 | Mitotic HEp-2 Cells Recognition under Class Skew. Lecture Notes in Computer Science, 2011, , 353-362. | 1.0 | 7 |
| 90 | Video-Rhino-Hygrometer: A New Method for Evaluation of Nasal Breathing after Nasal Surgery. American Journal of Rhinology and Allergy, 2010, 24, 467-471. | 1.0 | 4 |

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| 91 | Human movement onset detection from isometric force and torque measurements: A supervised pattern recognition approach. Artificial Intelligence in Medicine, 2010, 50, 55-61. | 3.8 | 18 |
| 92 | Knowledge discovery and computer-based decision support in biomedicine. Artificial Intelligence in Medicine, 2010, 50, 1-2. | 3.8 | 4 |
| 93 | Methods for greyscale representation of HEp-2 colour images. , 2010, , . | | 7 |
| 94 | Decomposition Methods and Learning Approaches for Imbalanced Dataset: An Experimental Integration. , 2010, , . | | 4 |
| 95 | Advances in Computer-Based Autoantibodies Analysis. Communications in Computer and Information Science, 2010, , 333-346. | 0.4 | 0 |
| 96 | A 2D segmentation algorithm for the analisys of TBY-2 cells. , 2010, , . | | 0 |
| 97 | Early experiences in mitotic cells recognition on HEp-2 slides. , 2010, , . | | 60 |
| 98 | A low-cost video-based tool for clinical gait analysis. , 2009, 2009, 3979-82. | | 16 |
| 99 | An experimental comparison of MES aggregation rules in case of imbalanced datasets. , 2009, , . | | 4 |
| 100 | Aggregation of Classifiers for Staining Pattern Recognition in Antinuclear Autoantibodies Analysis. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 322-329. | 3.6 | 91 |
| 101 | A multiple expert system for classifying fluorescent intensity in antinuclear autoantibodies analysis. Pattern Analysis and Applications, 2009, 12, 215-226. | 3.1 | 54 |
| 102 | On the use of classification reliability for improving performance of the one-per-class decomposition method. Data and Knowledge Engineering, 2009, 68, 1398-1410. | 2.1 | 18 |
| 103 | Analysis and Classification of Crithidia Luciliae Fluorescent Images. Lecture Notes in Computer Science, 2009, , 558-566. | 1.0 | 1 |
| 104 | A Hybrid Approach Handling Imbalanced Datasets. Lecture Notes in Computer Science, 2009, , 209-218. | 1.0 | 1 |
| 105 | A Supervised Pattern Recognition Approach for Human Movement Onset Detection. , 2008, , . | | 1 |
| 106 | Reliability Estimators for Classification by Decomposition Method: Experiments in the Medical Domain. , 2008, , . | | 0 |
| 107 | Facing Polychotomies through Classification by Decomposition: Applications in the Bio-medical Domain. Communications in Computer and Information Science, 2008, , 291-304. | 0.4 | 1 |
| 108 | Early Experiences in the Staining Pattern Classification of HEp-2 Slides. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , . | 0.0 | 11 |

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| 109 | A Hybrid Multi-Expert Systems for HEp-2 Staining Pattern Classification. , 2007, , . | | 6 |
| 110 | Indirect immunofluorescence in autoimmune diseases: Assessment of digital images for diagnostic purpose. Cytometry Part B - Clinical Cytometry, 2007, 72B, 472-477. | 0.7 | 87 |
| 111 | Photo-bleaching compensation for autofocus algorithms in fluorescence microscope applications. , 2006, , . | | 1 |
| 112 | Video-Rhino-Hygrometer (RH). , 2006, 2006, 543-6. | | 3 |
| 113 | Video-Rhino-Hygrometer (RH). Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , . | 0.5 | 0 |
| 114 | An empirical study on the joint impact of feature selection and data resampling on imbalance classification. Applied Intelligence, 0, , . | 3.3 | 8 |