

Francesco Tortorella

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77 papers	893 citations	16 h-index	28 g-index
86 ext. papers	1,107 ext. citations	2.9 avg, IF	4.5 L-index

#	Paper	IF	Citations
77	CT- and MRI-Based 3D Reconstruction of Knee Joint to Assess Cartilage and Bone.. <i>Diagnostics</i> , 2022 , 12,	3.8	2
76	Sinc-Based Convolutional Neural Networks for EEG-BCI-Based Motor Imagery Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 526-535	0.9	0
75	Trends in IoT based solutions for health care: Moving AI to the edge. <i>Pattern Recognition Letters</i> , 2020 , 135, 346-353	4.7	101
74	Addressing class imbalance in deep learning for small lesion detection on medical images. <i>Computers in Biology and Medicine</i> , 2020 , 120, 103735	7	28
73	A multi-context CNN ensemble for small lesion detection. <i>Artificial Intelligence in Medicine</i> , 2020 , 103, 101749	7.4	24
72	Combining Convolutional Neural Networks for Multi-context Microcalcification Detection in Mammograms. <i>Communications in Computer and Information Science</i> , 2019 , 36-44	0.3	
71	Improving the Automated Detection of Calcifications Using Adaptive Variance Stabilization. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1857-1864	11.7	6
70	The importance of early detection of calcifications associated with breast cancer in screening. <i>Breast Cancer Research and Treatment</i> , 2018 , 167, 451-458	4.4	20
69	A Novel Integrated Smart System for Indoor Air Monitoring and Gas Recognition 2018 ,		10
68	Mammogram denoising to improve the calcification detection performance of convolutional nets 2018 ,		4
67	Improving the automated detection of calcifications by combining deep cascades and deep convolutional nets 2018 ,		2
66	Deep Transfer Learning for writer identification in medieval books 2018 ,		3
65	Improving computer-aided detection assistance in breast cancer screening by removal of obviously false-positive findings. <i>Medical Physics</i> , 2017 , 44, 1390-1401	4.4	7
64	Spatial Enhancement by Dehazing for Detection of Microcalcifications with Convolutional Nets. <i>Lecture Notes in Computer Science</i> , 2017 , 288-298	0.9	5
63	Evaluation and design of a rain gauge network using a statistical optimization method in a severe hydro-geological hazard prone area 2017 ,		5
62	Illumination Correction by Dehazing for Retinal Vessel Segmentation 2017 ,		12
61	Retinal Vessel Segmentation Through Denoising and Mathematical Morphology. <i>Lecture Notes in Computer Science</i> , 2017 , 267-276	0.9	1

60	An effective learning strategy for cascaded object detection. <i>Information Sciences</i> , 2016 , 340-341, 17-26	7.7	20
59	Deep Cascade Classifiers to Detect Clusters of Microcalcifications. <i>Lecture Notes in Computer Science</i> , 2016 , 415-422	0.9	6
58	LUT-QNE: Look-Up-Table Quantum Noise Equalization in Digital Mammograms. <i>Lecture Notes in Computer Science</i> , 2016 , 27-34	0.9	3
57	Optimal Sensors Placement for Flood Forecasting Modelling. <i>Procedia Engineering</i> , 2015 , 119, 927-936		9
56	Learning from unbalanced data: a cascade-based approach for detecting clustered microcalcifications. <i>Medical Image Analysis</i> , 2014 , 18, 241-52	15.4	56
55	Designing LDPC Codes for ECOC Classification Systems. <i>Lecture Notes in Computer Science</i> , 2014 , 454-463	0.9	
54	A novel approach for detecting alerts in urban pollution monitoring with low cost sensors 2013 ,		1
53	Automatic segmentation of the pectoral muscle in mediolateral oblique mammograms 2013 ,		5
52	A Boosting-Based Approach to Refine the Segmentation of Masses in Mammography. <i>Lecture Notes in Computer Science</i> , 2013 , 572-580	0.9	2
51	Coding Theory Tools for Improving Recognition Performance in ECOC Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 201-211	0.9	1
50	Cascaded Rank-Based Classifiers for Detecting Clusters of Microcalcifications. <i>Lecture Notes in Computer Science</i> , 2013 , 166-170	0.9	
49	Detection of cluster of microcalcifications based on watershed segmentation algorithm 2012 ,		6
48	Semi-Supervised Learning Techniques in Artificial Olfaction: A Novel Approach to Classification Problems and Drift Counteraction. <i>IEEE Sensors Journal</i> , 2012 , 12, 3215-3224	4	67
47	Detecting Clusters of Microcalcifications with a Cascade-Based Approach. <i>Lecture Notes in Computer Science</i> , 2012 , 111-118	0.9	1
46	A Semi-Supervised Learning Approach to Artificial Olfaction. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 157-162	0.2	2
45	On linear combinations of dichotomizers for maximizing the area under the ROC curve. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 610-20		7
44	Design of reject rules for ECOC classification systems. <i>Pattern Recognition</i> , 2011 , 45, 863-863	7.7	3
43	A machine learning based algorithm for routing bandwidth-guaranteed paths in MPLS TE: Improvements and performance assessment 2011 ,		1

42	Partial AUC maximization in a linear combination of dichotomizers. <i>Pattern Recognition</i> , 2011 , 44, 2669-2677	14
41	Shaping the Error-Reject Curve of Error Correcting Output Coding Systems. <i>Lecture Notes in Computer Science</i> , 2011 , 118-127	0.9
40	Exploring Cascade Classifiers for Detecting Clusters of Microcalcifications. <i>Lecture Notes in Computer Science</i> , 2011 , 384-392	0.9
39	Two Stage Reject Rule for ECOC Classification Systems. <i>Lecture Notes in Computer Science</i> , 2011 , 217-226	0.9
38	Selection Strategies for pAUC-Based Combination of Dichotomizers. <i>Lecture Notes in Computer Science</i> , 2011 , 177-186	0.9
37	Exploiting System Knowledge to Improve ECOC Reject Rules 2010 ,	2
36	Digital Processing of Diagnostic Images. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 186-209	0.2 3
35	A computer-aided detection system for clustered microcalcifications. <i>Artificial Intelligence in Medicine</i> , 2010 , 50, 23-32	7.4 24
34	Combination of Dichotomizers for Maximizing the Partial Area under the ROC Curve. <i>Lecture Notes in Computer Science</i> , 2010 , 660-669	0.9 1
33	A Linear Combination of Classifiers via Rank Margin Maximization. <i>Lecture Notes in Computer Science</i> , 2010 , 650-659	0.9
32	Towards a Linear Combination of Dichotomizers by Margin Maximization. <i>Lecture Notes in Computer Science</i> , 2009 , 1043-1052	0.9
31	Detection of Clusters of Microcalcifications in Mammograms: A Multi Classifier Approach 2008 ,	4
30	MCS-based balancing techniques for skewed classes: An empirical comparison 2008 ,	8
29	Maximizing the area under the ROC curve by pairwise feature combination. <i>Pattern Recognition</i> , 2008 , 41, 1961-1974	7.7 60
28	Exploring Margin Maximization for Biometric Score Fusion. <i>Lecture Notes in Computer Science</i> , 2008 , 674-683	1
27	A Fast Approach to Improve Classification Performance of ECOC Classification Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 459-468	0.9 3
26	Facing Imbalanced Classes through Aggregation of Classifiers 2007 ,	17
25	Embedding Reject Option in ECOC Through LDPC Codes 2007 , 333-343	3

24	An Empirical Comparison of Ideal and Empirical ROC-Based Reject Rules. <i>Lecture Notes in Computer Science</i> , 2007 , 47-60	0.9	
23	Exploiting AUC for optimal linear combinations of dichotomizers. <i>Pattern Recognition Letters</i> , 2006 , 27, 900-907	4.7	14
22	AUC-Based Linear Combination of Dichotomizers. <i>Lecture Notes in Computer Science</i> , 2006 , 714-722	0.9	1
21	Estimating the ROC Curve of Linearly Combined Dichotomizers. <i>Lecture Notes in Computer Science</i> , 2005 , 778-785	0.9	1
20	A ROC-based reject rule for dichotomizers. <i>Pattern Recognition Letters</i> , 2005 , 26, 167-180	4.7	28
19	Algorithms for Detecting Clusters of Microcalcifications in Mammograms. <i>Lecture Notes in Computer Science</i> , 2005 , 884-891	0.9	5
18	SVM Based Regression Schemes for Instruments Fault Accommodation in Automotive Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 1117-1124	0.9	1
17	Detection of microcalcifications clusters in mammograms through TS-MRF segmentation and SVM-based classification 2004 ,		14
16	Reducing the classification cost of support vector classifiers through an ROC-based reject rule. <i>Pattern Analysis and Applications</i> , 2004 , 7, 128	2.3	15
15	A Cost-Sensitive Paradigm for Multiclass to Binary Decomposition Schemes. <i>Lecture Notes in Computer Science</i> , 2004 , 753-761	0.9	
14	A Method for Designing Cost-Sensitive ECOC. <i>Lecture Notes in Computer Science</i> , 2004 , 204-213	0.9	
13	Automatic classification of clustered microcalcifications by a multiple expert system. <i>Pattern Recognition</i> , 2003 , 36, 1467-1477	7.7	44
12	A ROC-Based Reject Rule for Support Vector Machines 2003 , 106-120		1
11	A CLASSIFICATION RELIABILITY DRIVEN REJECT RULE FOR MULTI-EXPERT SYSTEMS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2001 , 15, 885-904	1.1	11
10	An Optimal Reject Rule for Binary Classifiers. <i>Lecture Notes in Computer Science</i> , 2000 , 611-620	0.9	18
9	Multiclassification: reject criteria for the Bayesian combiner. <i>Pattern Recognition</i> , 1999 , 32, 1435-1447	7.7	29
8	Reliability Parameters to Improve Combination Strategies in Multi-Expert Systems. <i>Pattern Analysis and Applications</i> , 1999 , 2, 205-214	2.3	65
7	Combining statistical and structural approaches for handwritten character description. <i>Image and Vision Computing</i> , 1999 , 17, 701-711	3.7	9

6	Optimizing the error/reject trade-off for a multi-expert system using the Bayesian combining rule. <i>Lecture Notes in Computer Science</i> , 1998 , 716-725	0.9	1
5	Neural network classification reliability: Problems and applications. <i>Neural Network Systems Techniques and Applications</i> , 1998 , 161-199		12
4	Classification reliability and its use in multi-classifier systems. <i>Lecture Notes in Computer Science</i> , 1997 , 46-53	0.9	
3	A method for improving classification reliability of multilayer perceptrons. <i>IEEE Transactions on Neural Networks</i> , 1995 , 6, 1140-7		49
2	An entropy based method for extracting robust binary-templates. <i>Machine Vision and Applications</i> , 1995 , 8, 173-178	2.8	7
1	An empirical comparison of in-learning and post-learning optimization schemes for tuning the support vector machines in cost-sensitive applications		2