

Francesco Tortorella

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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	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
76	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
75	Reliability Parameters to Improve Combination Strategies in Multi-Expert Systems. <i>Pattern Analysis and Applications</i> , 1999 , 2, 205-214	2.3	65
74	Maximizing the area under the ROC curve by pairwise feature combination. <i>Pattern Recognition</i> , 2008 , 41, 1961-1974	7.7	60
73	Learning from unbalanced data: a cascade-based approach for detecting clustered microcalcifications. <i>Medical Image Analysis</i> , 2014 , 18, 241-52	15.4	56
72	A method for improving classification reliability of multilayer perceptrons. <i>IEEE Transactions on Neural Networks</i> , 1995 , 6, 1140-7		49
71	Automatic classification of clustered microcalcifications by a multiple expert system. <i>Pattern Recognition</i> , 2003 , 36, 1467-1477	7.7	44
70	Multiclassification: reject criteria for the Bayesian combiner. <i>Pattern Recognition</i> , 1999 , 32, 1435-1447	7.7	29
69	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
68	A ROC-based reject rule for dichotomizers. <i>Pattern Recognition Letters</i> , 2005 , 26, 167-180	4.7	28
67	A computer-aided detection system for clustered microcalcifications. <i>Artificial Intelligence in Medicine</i> , 2010 , 50, 23-32	7.4	24
66	A multi-context CNN ensemble for small lesion detection. <i>Artificial Intelligence in Medicine</i> , 2020 , 103, 101749	7.4	24
65	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
64	An effective learning strategy for cascaded object detection. <i>Information Sciences</i> , 2016 , 340-341, 17-26	7.7	20
63	An Optimal Reject Rule for Binary Classifiers. <i>Lecture Notes in Computer Science</i> , 2000 , 611-620	0.9	18
62	Facing Imbalanced Classes through Aggregation of Classifiers 2007 ,		17
61	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

60	Partial AUC maximization in a linear combination of dichotomizers. <i>Pattern Recognition</i> , 2011 , 44, 2669-2677	26.7	14
59	Exploiting AUC for optimal linear combinations of dichotomizers. <i>Pattern Recognition Letters</i> , 2006 , 27, 900-907	4.7	14
58	Detection of microcalcifications clusters in mammograms through TS-MRF segmentation and SVM-based classification 2004 ,		14
57	Illumination Correction by Dehazing for Retinal Vessel Segmentation 2017 ,		12
56	Neural network classification reliability: Problems and applications. <i>Neural Network Systems Techniques and Applications</i> , 1998 , 161-199		12
55	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
54	A Novel Integrated Smart System for Indoor Air Monitoring and Gas Recognition 2018 ,		10
53	Optimal Sensors Placement for Flood Forecasting Modelling. <i>Procedia Engineering</i> , 2015 , 119, 927-936		9
52	Combining statistical and structural approaches for handwritten character description. <i>Image and Vision Computing</i> , 1999 , 17, 701-711	3.7	9
51	MCS-based balancing techniques for skewed classes: An empirical comparison 2008 ,		8
50	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
49	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
48	An entropy based method for extracting robust binary-templates. <i>Machine Vision and Applications</i> , 1995 , 8, 173-178	2.8	7
47	Improving the Automated Detection of Calcifications Using Adaptive Variance Stabilization. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1857-1864	11.7	6
46	Detection of cluster of microcalcifications based on watershed segmentation algorithm 2012 ,		6
45	Deep Cascade Classifiers to Detect Clusters of Microcalcifications. <i>Lecture Notes in Computer Science</i> , 2016 , 415-422	0.9	6
44	Spatial Enhancement by Dehazing for Detection of Microcalcifications with Convolutional Nets. <i>Lecture Notes in Computer Science</i> , 2017 , 288-298	0.9	5
43	Evaluation and design of a rain gauge network using a statistical optimization method in a severe hydro-geological hazard prone area 2017 ,		5

42	Automatic segmentation of the pectoral muscle in mediolateral oblique mammograms 2013 ,		5
41	Algorithms for Detecting Clusters of Microcalcifications in Mammograms. <i>Lecture Notes in Computer Science</i> , 2005 , 884-891	0.9	5
40	Detection of Clusters of Microcalcifications in Mammograms: A Multi Classifier Approach 2008 ,		4
39	Mammogram denoising to improve the calcification detection performance of convolutional nets 2018 ,		4
38	Design of reject rules for ECOC classification systems. <i>Pattern Recognition</i> , 2011 , 45, 863-863	7.7	3
37	Digital Processing of Diagnostic Images. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 186-209	0.2	3
36	Embedding Reject Option in ECOC Through LDPC Codes 2007 , 333-343		3
35	A Fast Approach to Improve Classification Performance of ECOC Classification Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 459-468	0.9	3
34	LUT-QNE: Look-Up-Table Quantum Noise Equalization in Digital Mammograms. <i>Lecture Notes in Computer Science</i> , 2016 , 27-34	0.9	3
33	Deep Transfer Learning for writer identification in medieval books 2018 ,		3
32	Exploiting System Knowledge to Improve ECOC Reject Rules 2010 ,		2
31	An empirical comparison of in-learning and post-learning optimization schemes for tuning the support vector machines in cost-sensitive applications		2
30	CT- and MRI-Based 3D Reconstruction of Knee Joint to Assess Cartilage and Bone.. <i>Diagnostics</i> , 2022 , 12,	3.8	2
29	Improving the automated detection of calcifications by combining deep cascades and deep convolutional nets 2018 ,		2
28	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
27	A Semi-Supervised Learning Approach to Artificial Olfaction. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 157-162	0.2	2
26	A novel approach for detecting alerts in urban pollution monitoring with low cost sensors 2013 ,		1
25	A machine learning based algorithm for routing bandwidth-guaranteed paths in MPLS TE: Improvements and performance assessment 2011 ,		1

24	Estimating the ROC Curve of Linearly Combined Dichotomizers. <i>Lecture Notes in Computer Science</i> , 2005 , 778-785	0.9	1
23	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
22	SVM Based Regression Schemes for Instruments Fault Accommodation in Automotive Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 1117-1124	0.9	1
21	AUC-Based Linear Combination of Dichotomizers. <i>Lecture Notes in Computer Science</i> , 2006 , 714-722	0.9	1
20	Exploring Margin Maximization for Biometric Score Fusion. <i>Lecture Notes in Computer Science</i> , 2008 , 674-683	0.9	1
19	Retinal Vessel Segmentation Through Denoising and Mathematical Morphology. <i>Lecture Notes in Computer Science</i> , 2017 , 267-276	0.9	1
18	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
17	Detecting Clusters of Microcalcifications with a Cascade-Based Approach. <i>Lecture Notes in Computer Science</i> , 2012 , 111-118	0.9	1
16	Coding Theory Tools for Improving Recognition Performance in ECOC Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 201-211	0.9	1
15	A ROC-Based Reject Rule for Support Vector Machines 2003 , 106-120		1
14	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
13	An Empirical Comparison of Ideal and Empirical ROC-Based Reject Rules. <i>Lecture Notes in Computer Science</i> , 2007 , 47-60	0.9	
12	A Cost-Sensitive Paradigm for Multiclass to Binary Decomposition Schemes. <i>Lecture Notes in Computer Science</i> , 2004 , 753-761	0.9	
11	A Method for Designing Cost-Sensitive ECOC. <i>Lecture Notes in Computer Science</i> , 2004 , 204-213	0.9	
10	Combining Convolutional Neural Networks for Multi-context Microcalcification Detection in Mammograms. <i>Communications in Computer and Information Science</i> , 2019 , 36-44	0.3	
9	Classification reliability and its use in multi-classifier systems. <i>Lecture Notes in Computer Science</i> , 1997 , 46-53	0.9	
8	Towards a Linear Combination of Dichotomizers by Margin Maximization. <i>Lecture Notes in Computer Science</i> , 2009 , 1043-1052	0.9	
7	A Linear Combination of Classifiers via Rank Margin Maximization. <i>Lecture Notes in Computer Science</i> , 2010 , 650-659	0.9	

- 6 Shaping the Error-Reject Curve of Error Correcting Output Coding Systems. *Lecture Notes in Computer Science*, **2011**, 118-127 0.9
- 5 Exploring Cascade Classifiers for Detecting Clusters of Microcalcifications. *Lecture Notes in Computer Science*, **2011**, 384-392 0.9
- 4 Two Stage Reject Rule for ECOC Classification Systems. *Lecture Notes in Computer Science*, **2011**, 217-226.9
- 3 Selection Strategies for pAUC-Based Combination of Dichotomizers. *Lecture Notes in Computer Science*, **2011**, 177-186 0.9
- 2 Cascaded Rank-Based Classifiers for Detecting Clusters of Microcalcifications. *Lecture Notes in Computer Science*, **2013**, 166-170 0.9
- 1 Designing LDPC Codes for ECOC Classification Systems. *Lecture Notes in Computer Science*, **2014**, 454-463.9