

# Francesco Bianconi

## List of Publications by Year in descending order

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75  
papers

2,063  
citations

218677  
26  
h-index

254184  
43  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-class texture analysis in colorectal cancer histology. Scientific Reports, 2016, 6, 27988.	3.3	305
2	Evaluation of the effects of Gabor filter parameters on texture classification. Pattern Recognition, 2007, 40, 3325-3335.	8.1	205
3	Texture Description Through Histograms of Equivalent Patterns. Journal of Mathematical Imaging and Vision, 2013, 45, 76-102.	1.3	105
4	Solid anaerobic digestion batch with liquid digestate recirculation and wet anaerobic digestion of organic waste: Comparison of system performances and identification of microbial guilds. Waste Management, 2017, 59, 172-180.	7.4	84
5	Theoretical and experimental comparison of different approaches for color texture classification. Journal of Electronic Imaging, 2011, 20, 043006.	0.9	76
6	Object-Based Greenhouse Classification from GeoEye-1 and WorldView-2 Stereo Imagery. Remote Sensing, 2014, 6, 3554-3582.	4.0	67
7	Evaluation of robustness against rotation of LBP, CCR and ILBP features in granite texture classification. Machine Vision and Applications, 2011, 22, 913-926.	2.7	65
8	Automatic classification of granite tiles through colour and texture features. Expert Systems With Applications, 2012, 39, 11212-11218.	7.6	63
9	Discrimination between tumour epithelium and stroma via perception-based features. Neurocomputing, 2015, 154, 119-126.	5.9	53
10	Texture Analysis on [18F]FDG PET/CT in Non-Small-Cell Lung Cancer: Correlations Between PET Features, CT Features, and Histological Types. Molecular Imaging and Biology, 2019, 21, 1200-1209.	2.6	53
11	Rotation-invariant colour texture classification through multilayer CCR. Pattern Recognition Letters, 2009, 30, 765-773.	4.2	52
12	Comparative Evaluation of Hand-Crafted Image Descriptors vs. Off-the-Shelf CNN-Based Features for Colour Texture Classification under Ideal and Realistic Conditions. Applied Sciences (Switzerland), 2019, 9, 738.	2.5	52
13	Image classification with binary gradient contours. Optics and Lasers in Engineering, 2011, 49, 1177-1184.	3.8	50
14	A methodology to investigate the behaviour of urea-water sprays in high temperature air flow for SCR de- $\text{NO} \times \text{H}_2\text{O}$ overflow="scroll">< mml:mrow>< mml:msub>< mml:mrow>< mml:mi mathvariant="normal">NO</mml:mi></mml:mrow>< mml:mrow>< mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>           Fuel, 2015, 150, 548-557.	6.4	41
15	PET/CT Radiomics in Lung Cancer: An Overview. Applied Sciences (Switzerland), 2020, 10, 1718.	2.5	40
16	Performance analysis of colour descriptors for parquet sorting. Expert Systems With Applications, 2013, 40, 1636-1644.	7.6	38
17	An approach for feature semantics recognition in geometric models. CAD Computer Aided Design, 2004, 36, 993-1009.	2.7	37
18	Improved opponent color local binary patterns: an effective local image descriptor for color texture classification. Journal of Electronic Imaging, 2017, 27, 1.	0.9	35

#	ARTICLE	IF	CITATIONS
19	Evaluation of Shape and Textural Features from CT as Prognostic Biomarkers in Non-small Cell Lung Cancer. <i>Anticancer Research</i> , 2018, 38, 2155-2160.	1.1	33
20	Quality assessment for recycling aggregates from construction and demolition waste: An image-based approach for particle size estimation. <i>Waste Management</i> , 2016, 48, 344-352.	7.4	32
21	Dominant local binary patterns for texture classification: Labelled or unlabelled?. <i>Pattern Recognition Letters</i> , 2015, 65, 8-14.	4.2	31
22	Dimensionality Reduction Strategies for CNN-Based Classification of Histopathological Images. <i>Smart Innovation, Systems and Technologies</i> , 2018, , 21-30.	0.6	30
23	Rotation invariant co-occurrence features based on digital circles and discrete Fourier transform. <i>Pattern Recognition Letters</i> , 2014, 48, 34-41.	4.2	29
24	Value of Shape and Texture Features from 18F-FDG PET/CT to Discriminate between Benign and Malignant Solitary Pulmonary Nodules: An Experimental Evaluation. <i>Diagnostics</i> , 2020, 10, 696.	2.6	29
25	On the Occurrence Probability of Local Binary Patterns: A Theoretical Study. <i>Journal of Mathematical Imaging and Vision</i> , 2011, 40, 259-268.	1.3	28
26	A sequential machine vision procedure for assessing paper impurities. <i>Computers in Industry</i> , 2014, 65, 325-332.	9.9	26
27	Comparative evaluation of conventional and deep learning methods for semi-automated segmentation of pulmonary nodules on CT. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3286-3305.	2.0	26
28	An appendix to "Texture databases" A comprehensive survey. <i>Pattern Recognition Letters</i> , 2014, 45, 33-38.	4.2	23
29	Experimental comparison of color spaces for material classification. <i>Journal of Electronic Imaging</i> , 2016, 25, 061406.	0.9	23
30	Robust color texture features based on ranklets and discrete Fourier transform. <i>Journal of Electronic Imaging</i> , 2009, 18, 043012.	0.9	19
31	An investigation on the use of local multi-resolution patterns for image classification. <i>Information Sciences</i> , 2016, 361-362, 1-13.	6.9	18
32	[123I]Metaiodobenzylguanidine (MIBG) Cardiac Scintigraphy and Automated Classification Techniques in Parkinsonian Disorders. <i>Molecular Imaging and Biology</i> , 2020, 22, 703-710.	2.6	17
33	Experimental Assessment of Color Deconvolution and Color Normalization for Automated Classification of Histology Images Stained with Hematoxylin and Eosin. <i>Cancers</i> , 2020, 12, 3337.	3.7	17
34	Colour and Texture Descriptors for Visual Recognition: A Historical Overview. <i>Journal of Imaging</i> , 2021, 7, 245.	3.0	17
35	Automatic Characterization of the Visual Appearance of Industrial Materials through Colour and Texture Analysis: An Overview of Methods and Applications. <i>Advances in Optical Technologies</i> , 2013, 2013, 1-11.	0.8	14
36	General Framework for Rotation Invariant Texture Classification Through Co-occurrence of Patterns. <i>Journal of Mathematical Imaging and Vision</i> , 2014, 50, 300-313.	1.3	14

#	ARTICLE	IF	CITATIONS
37	Interoperability among CAD/CAM/CAE Systems: A Review of Current Research Trends. , 0, , .		13
38	Classification of urban areas from GeoEye-1 imagery through texture features based on Histograms of Equivalent Patterns. European Journal of Remote Sensing, 2016, 49, 93-120.	3.5	13
39	On Comparing Colour Spaces From a Performance Perspective: Application to Automated Classification of Polished Natural Stones. Lecture Notes in Computer Science, 2015, , 71-78.	1.3	13
40	Evaluation of Colour Pre-processing on Patch-Based Classification of H&E-Stained Images. Lecture Notes in Computer Science, 2019, , 56-64.	1.3	12
41	In Vivo Assessment of Water Content, Trans-Epidermal Water Loss and Thickness in Human Facial Skin. Applied Sciences (Switzerland), 2020, 10, 6139.	2.5	12
42	Grain-size assessment of fine and coarse aggregates through bipolar area morphology. Machine Vision and Applications, 2015, 26, 775-789.	2.7	11
43	Artificial intelligence techniques support nuclear medicine modalities to improve the diagnosis of Parkinson's disease and Parkinsonian syndromes. Clinical and Translational Imaging, 2021, 9, 19-35.	2.1	11
44	The Role and Potential of 18F-FDG PET/CT in Malignant Melanoma: Prognostication, Monitoring Response to Targeted and Immunotherapy, and Radiomics. Diagnostics, 2022, 12, 929.	2.6	11
45	A web-based simulation game as a learning tool for the design process of complex systems. Journal of Design Research, 2006, 5, 253.	0.1	9
46	Texture Classification Through Combination of Sequential Colour Texture Classifiers. , 2007, , 231-240.		9
47	Evaluation of visual descriptors for painting categorisation. IOP Conference Series: Materials Science and Engineering, 2018, 364, 012037.	0.6	8
48	Radiomic Machine Learning: Is It Really a Useful Method for the Characterization of Prostate Cancer?. Radiology, 2019, 291, 269-270.	7.3	8
49	Classification Model to Estimate MIB-1 (Ki 67) Proliferation Index in NSCLC Patients Evaluated With <sup>18</sup> F-FDG-PET/CT. Anticancer Research, 2020, 40, 3355-3360.	1.1	8
50	Impact of Lesion Delineation and Intensity Quantisation on the Stability of Texture Features from Lung Nodules on CT: A Reproducible Study. Diagnostics, 2021, 11, 1224.	2.6	7
51	A Unifying Framework for LBP and Related Methods. Studies in Computational Intelligence, 2014, , 17-46.	0.9	7
52	Form Factors as Potential Imaging Biomarkers to Differentiate Benign vs. Malignant Lung Lesions on CT Scans. Sensors, 2022, 22, 5044.	3.8	7
53	Experimental characterization of the color rendering properties of transparent monolithic aerogel. Solar Energy, 2020, 205, 183-191.	6.1	6
54	Skin Characterizations by Using Contact Capacitive Imaging and High-Resolution Ultrasound Imaging with Machine Learning Algorithms. Applied Sciences (Switzerland), 2021, 11, 8714.	2.5	6

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55	Personal identification based on skin texture features from the forearm and multi-modal imaging. Skin Research and Technology, 2017, 23, 392-398.	1.6	5
56	A Texture Analysis Approach to Identifying Sabellaria Spinulosa Colonies in Sidescan Sonar Imagery. , 2011, , .		4
57	On the use of skin texture features for gender recognition: An experimental evaluation. , 2016, , .		4
58	Visual Localization in the Presence of Appearance Changes Using the Partial Order Kernel. , 2018, , .		3
59	CNN-Based Refactoring of Hand-Designed Filters for Texture Analysis: A Classic Revisited. IEEE Access, 2019, 7, 173076-173085.	4.2	3
60	Counting local n-ary patterns. Pattern Recognition Letters, 2019, 117, 24-29.	4.2	3
61	Partial Order Rank Features in Colour Space. Applied Sciences (Switzerland), 2020, 10, 499.	2.5	3
62	Hand-Designed Local Image Descriptors vs. Off-the-Shelf CNN-Based Features for Texture Classification: An Experimental Comparison. Smart Innovation, Systems and Technologies, 2018, , 1-10.	0.6	3
63	Classification of Tissue Regions in Histopathological Images: Comparison Between Pre-trained Convolutional Neural Networks and Local Binary Patterns Variants. Intelligent Systems Reference Library, 2020, , 95-115.	1.2	2
64	Texture Classification Using Rotation Invariant LBP Based on Digital Polygons. Lecture Notes in Computer Science, 2015, , 87-94.	1.3	2
65	Compact Color Texture Descriptor Based on Rank Transform and Product Ordering in the RGB Color Space. , 2017, , .		1
66	LBP-Motivated Colour Texture Classification. Lecture Notes in Computer Science, 2019, , 517-533.	1.3	1
67	Special Issue Texture and Color in Image Analysis. Applied Sciences (Switzerland), 2021, 11, 3801.	2.5	1
68	Shape and Texture Analysis of Radiomic Data for Computer-Assisted Diagnosis and Prognostication: An Overview. Lecture Notes in Mechanical Engineering, 2020, , 3-14.	0.4	1
69	Semi-automatic Modeling of Reverse-Engineered Shapes through Design-by-Feature and Genetic Algorithms. , 2008, , .		0
70	Performance assessment of multi-level image thresholding for paper quality inspection. International Journal of Service and Computing Oriented Manufacturing, 2014, 1, 281.	0.2	0
71	Experimental analysis of colour constancy and colour augmentation for painting classification by artistic genre: preliminary results. IOP Conference Series: Materials Science and Engineering, 2020, 949, 012065.	0.6	0
72	Solitary pulmonary nodule: Is positron emission tomography/computed tomography radiomics a valid diagnostic approach?. Lung India, 2021, 38, 405.	0.7	0

#	ARTICLE	IF	CITATIONS
73	ENUMERATING NECKLACES WITH TRANSITIONS. Bulletin of the Australian Mathematical Society, 0, , 1-11.	0.5	0
74	PET with amino acid tracers and radiomics: An emerging opportunity for the diagnosis of brain tumours. Revista Espanola De Medicina Nuclear E Imagen Molecular, 2022, 41, 136.	0.2	0
75	123I-MIBG Cardiac Scintigraphy and Heart/Mediastinum Ratio in Neurodegenerative Disorders: Is Delayed Scan Really Necessary?. Current Radiopharmaceuticals, 2022, 15, .	0.8	0