

Rachid Jennane

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,603
citations

361045

20
h-index

329751

37
g-index

100
all docs

100
docs citations

100
times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractal organization of trabecular bone images on calcaneus radiographs. Journal of Bone and Mineral Research, 1994, 9, 1909-1918.	3.1	168
2	Fractal Analysis of Trabecular Bone Texture on Radiographs: Discriminant Value in Postmenopausal Osteoporosis. Osteoporosis International, 1998, 8, 618-626.	1.3	148
3	Fractal Analysis of Radiographic Trabecular Bone Texture and Bone Mineral Density: Two Complementary Parameters Related to Osteoporotic Fractures. Journal of Bone and Mineral Research, 2001, 16, 697-704.	3.1	137
4	A decision support tool for early detection of knee OsteoArthritis using X-ray imaging and machine learning: Data from the OsteoArthritis Initiative. Computerized Medical Imaging and Graphics, 2019, 73, 11-18.	3.5	100
5	Fractal analysis of bone X-ray tomographic microscopy projections. IEEE Transactions on Medical Imaging, 2001, 20, 443-449.	5.4	61
6	Estimation of the 3D self-similarity parameter of trabecular bone from its 2D projection. Medical Image Analysis, 2007, 11, 91-98.	7.0	58
7	An EMG fractal indicator having different sensitivities to changes in force and muscle fatigue during voluntary static muscle contractions. Journal of Electromyography and Kinesiology, 2005, 15, 210-221.	0.7	56
8	One dimensional local binary pattern for bone texture characterization. Pattern Analysis and Applications, 2014, 17, 179-193.	3.1	55
9	Classification of the trabecular bone structure of osteoporotic patients using machine vision. Computers in Biology and Medicine, 2017, 91, 148-158.	3.9	50
10	Subchondral tibial bone texture analysis predicts knee osteoarthritis progression: data from the Osteoarthritis Initiative. Osteoarthritis and Cartilage, 2017, 25, 259-266.	0.6	43
11	Fast and exact synthesis for 1-D fractional Brownian motion and fractional Gaussian noises. IEEE Signal Processing Letters, 2002, 9, 382-384.	2.1	42
12	Subchondral tibial bone texture predicts the incidence of radiographic knee osteoarthritis: data from the Osteoarthritis Initiative. Osteoarthritis and Cartilage, 2017, 25, 2047-2054.	0.6	40
13	Application of chemometric algorithms to MALDI mass spectrometry imaging of pharmaceutical tablets. Journal of Pharmaceutical and Biomedical Analysis, 2015, 105, 91-100.	1.4	35
14	Changes in prevalence of calcaneal spurs in men & women: a random population from a trauma clinic. BMC Musculoskeletal Disorders, 2014, 15, 87.	0.8	30
15	Piecewise Whittle estimator for trabecular bone radiograph characterization. Biomedical Signal Processing and Control, 2013, 8, 657-666.	3.5	29
16	Fracture Discrimination by Combined Bone Mineral Density (BMD) and Microarchitectural Texture Analysis. Calcified Tissue International, 2015, 96, 274-283.	1.5	29
17	Discriminative Regularized Auto-Encoder for Early Detection of Knee OsteoArthritis: Data from the Osteoarthritis Initiative. IEEE Transactions on Medical Imaging, 2020, 39, 2976-2984.	5.4	29
18	Fusing convolutional neural network features with hand-crafted features for osteoporosis diagnoses. Neurocomputing, 2020, 385, 300-309.	3.5	26

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19	Anisotropic Discrete Dual-Tree Wavelet Transform for Improved Classification of Trabecular Bone. IEEE Transactions on Medical Imaging, 2017, 36, 2077-2086.	5.4	25
20	Oriented fractal analysis for improved bone microarchitecture characterization. Biomedical Signal Processing and Control, 2018, 39, 474-485.	3.5	22
21	Texture analysis using complex wavelet decomposition for knee osteoarthritis detection: Data from the osteoarthritis initiative. Computers and Electrical Engineering, 2018, 68, 181-191.	3.0	21
22	3D Image Analysis and Artificial Intelligence for Bone Disease Classification. Journal of Medical Systems, 2010, 34, 815-828.	2.2	20
23	Trabecular bone characterization using circular parametric models. Biomedical Signal Processing and Control, 2017, 33, 411-421.	3.5	19
24	Osteoporosis Diagnosis Using Fractal Analysis and Support Vector Machine. , 2014, , .		17
25	Prediction of knee osteoarthritis progression using radiological descriptors obtained from bone texture analysis and Siamese neural networks: data from OAI and MOST cohorts. Arthritis Research and Therapy, 2022, 24, 66.	1.6	17
26	Piecewise fractional Brownian motion. IEEE Transactions on Signal Processing, 2005, 53, 1211-1215.	3.2	16
27	Genetic algorithm and image processing for osteoporosis diagnosis. , 2010, 2010, 5597-600.		16
28	Modeling of biological doses and mechanical effects on bone transduction. Journal of Theoretical Biology, 2011, 274, 36-42.	0.8	16
29	Fractional Brownian Motion and Rao Geodesic Distance for Bone X-Ray Image Characterization. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1347-1359.	3.9	16
30	A complex network based approach for knee Osteoarthritis detection: Data from the Osteoarthritis initiative. Biomedical Signal Processing and Control, 2022, 71, 103133.	3.5	16
31	Implications of the calf musculature and Achilles tendon architectures for understanding the site of injury. Journal of Biomechanics, 2016, 49, 1180-1185.	0.9	14
32	Diagnosis of osteoporosis disease from bone X-ray images with stacked sparse autoencoder and SVM classifier. , 2017, , .		13
33	Image processing for the non-destructive characterization of porous media. Application to limestones and trabecular bones. Mathematics and Computers in Simulation, 2014, 99, 82-94.	2.4	12
34	Assessment of bone mineral density and radiographic texture analysis at the tibial subchondral bone. Osteoporosis International, 2012, 23, 871-876.	1.3	11
35	Trabecular bone texture analysis of conventional radiographs in the assessment of knee osteoarthritis: review and viewpoint. Arthritis Research and Therapy, 2021, 23, 208.	1.6	11
36	Multifractal-based lacunarity analysis of trabecular bone in radiography. Computers in Biology and Medicine, 2020, 116, 103559.	3.9	10

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37	Osteoporosis assessment using Multilayer Perceptron neural networks. , 2012, , .		9
38	Trabecular Bone Anisotropy Characterization Using 1D Local Binary Patterns. Lecture Notes in Computer Science, 2010, , 105-113.	1.0	9
39	3D shape-dependent thinning method for trabecular bone characterization. Medical Physics, 2011, 39, 168-178.	1.6	8
40	Combined finite element model of human proximal femur behaviour considering remodeling and fracture. Irbm, 2013, 34, 191-195.	3.7	8
41	Texture Analysis for Trabecular Bone X-Ray Images Using Anisotropic Morlet Wavelet and RÄ©nyi Entropy. Lecture Notes in Computer Science, 2012, , 290-297.	1.0	7
42	ROI impact on the characterization of knee osteoarthritis using fractal analysis. , 2015, , .		7
43	3D Reconstruction of the proximal femur shape from few pairs of x-ray radiographs. Signal Processing: Image Communication, 2017, 59, 65-72.	1.8	7
44	Integrative blockwise sparse analysis for tissue characterization and classification. Artificial Intelligence in Medicine, 2020, 107, 101885.	3.8	7
45	Robust, blind multichannel image identification and restoration using stack decoder. IET Image Processing, 2019, 13, 475-482.	1.4	6
46	A variational model for trabecular bone radiograph characterization. , 2014, , .		5
47	3D reconstruction method of the proximal femur and shape correction. , 2014, , .		5
48	Trabecular bone texture classification using wavelet leaders. Proceedings of SPIE, 2016, , .	0.8	5
49	Mechanical assessment of trabecular bone stiffness using hybrid skeleton and finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 352-359.	1.3	5
50	Evaluation of fractional Brownian motion synthesis methods using the SVM classifier. Biomedical Signal Processing and Control, 2019, 49, 48-56.	3.5	5
51	An autism spectrum disorder adaptive identification based on the Elimination of brain connections: a proof of long-range underconnectivity. Soft Computing, 2022, 26, 4701-4711.	2.1	5
52	Siamese-Gap Network for Early Detection of Knee Osteoarthritis. , 2022, , .		5
53	Shape classification techniques for discrete 3D porous media. Application to trabecular bone. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5536-9.	0.5	4
54	Texture characterization using local binary pattern and wavelets. Application to bone radiographs. , 2012, , .		4

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55	Texture analysis using dual tree M-band and Rényi entropy. Application to osteoporosis diagnosis on bone radiographs. , 2012, , .		4
56	Segmentation of nanotomographic cortical bone images for quantitative characterization of the osteocyte lacuno-canalicular network. AIP Conference Proceedings, 2016, , .	0.3	4
57	A proposed computer-aided diagnosis system for Parkinson's disease classification using 123I-FP-CIT imaging. , 2017, , .		4
58	Analysis of under-connectivity in Autism using the minimum spanning tree: application on large multi-site dataset. , 2018, , .		4
59	Texture Analysis and Genetic Algorithms for Osteoporosis Diagnosis. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2057002.	0.7	4
60	Knee Osteoarthritis Detection Using Power Spectral Density: Data from the OsteoArthritis Initiative. Lecture Notes in Computer Science, 2019, , 480-487.	1.0	4
61	A New Method for 3D Thinning of Hybrid Shaped Porous Media Using Artificial Intelligence. Application to Trabecular Bone. Journal of Medical Systems, 2012, 36, 497-510.	2.2	3
62	Dual active contours model for HR-pQCT cortical bone segmentation. , 2016, , .		3
63	Fuzzy energy based active contours model for HR-PQCT cortical bone segmentation. , 2016, , .		3
64	Quantification of Trabecular Bone Porosity on X-Ray Images. Journal of Industrial and Intelligent Information, 2015, 3, .	0.1	3
65	Osteoporosis diagnosis using steerable pyramid decomposition and fractional Brownian motion. , 2015, , .		2
66	Ischemic stroke enhancement using a variational model and the expectation maximization method. European Radiology, 2018, 28, 3936-3942.	2.3	2
67	Blind Stereoscopic Image Quality Assessment Using Convolutional Neural Networks and Support Vector Regression. , 2018, , .		2
68	Study of the relative magnitude in the wavelet domain for texture characterization. Signal, Image and Video Processing, 2018, 12, 1403-1410.	1.7	2
69	Trabecular Bone Texture Characterization Using Regularization Dimension and Box-counting Dimension. , 2019, , .		2
70	Histogram of Oriented Gradients and Texture Features for Bone Texture Characterization. International Journal of Computer Applications, 2017, 165, 23-28.	0.2	2
71	Deep Transfer Learning and Majority Voting Approaches for Osteoporosis Classification. International Journal of Intelligent Systems and Applications in Engineering, 2021, 9, 256-265.	1.0	2
72	Non-destructive characterization: By 3D image processing of Moroccan meteorites. , 2011, , .		1

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73	Early diagnosis of osteoporosis using Artificial Neural Networks and Support Vector Machines. , 2012, , .		1
74	Investigation of the meteorites porosity by X-ray tomography and 3D image processing. , 2014, , .		1
75	On the use of image quality measures for image restoration. , 2016, , .		1
76	Texture classification using relative phase and Gaussian mixture models in the complex wavelet domain. , 2016, , .		1
77	Trabecular Bone Radiograph Characterization Using Lacunarity Measurement. , 2016, , .		1
78	Osteoporosis diagnosis using frequency separation and fractional Brownian motion. , 2017, , .		1
79	Multi-resolution Texture Analysis for Osteoporosis Classification. Lecture Notes in Networks and Systems, 2021, , 769-779.	0.5	1
80	Ensembles of sparse classifiers for osteoporosis characterization in digital radiographs. , 2019, , .		1
81	Fully anisotropic morlet transform for the study of the trabecular bone texture variations. , 2017, , .		1
82	Association Between Individual Calf Muscle Volume And Achilles Tendon Entesis Morphology. Medicine and Science in Sports and Exercise, 2015, 47, 96.	0.2	0
83	The use of dual-energy X-ray absorptiometry images to evaluate the risk of bone fracture. , 2015, , .		0
84	Sequential stack decoder for multichannel image restoration. , 2016, , .		0
85	Special Section Guest Editorial: Perceptually Driven Visual Information Analysis. Journal of Electronic Imaging, 2017, 25, 061601.	0.5	0
86	Segmentation of muscle and skeletal tissues in HR-pQCT images. , 2017, , .		0
87	Response to Letter to the Editor: "Subchondral tibial bone texture predicts the incidence of radiographic knee osteoarthritis: data from the osteoarthritis initiative: methodological issues"™. Osteoarthritis and Cartilage, 2018, 26, e6-e7.	0.6	0
88	A new weighted normal-based filter for 3D mesh denoising. , 2018, , .		0
89	Discrimination of Osteopathic Patients using Logistic Regression Model. , 2018, , .		0
90	Guest Editorial: Advances in Computational Intelligence for Multimodal Biomedical Imaging. Multimedia Tools and Applications, 2019, 78, 12639-12645.	2.6	0

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91	A New Complex Wavelet Relative Phase for Osteoporosis Diagnosis. , 2019, , .		0
92	A novel 3D dual active contours approach. Pattern Analysis and Applications, 2020, 23, 581-591.	3.1	0
93	A topology constrained geometric deformable model for medical image segmentation. Biomedical Signal Processing and Control, 2021, 64, 102299.	3.5	0
94	Hierarchical Multiscale Local Binary Pattern For Better Osteoporosis Detection. , 2021, , .		0
95	Ischemic stroke enhancement in computed tomography scans using a computational approach. , 2018, , .		0
96	Session details: Theme: AI and agents: CIVIA - Computational intelligence and video & image analysis track. , 2020, , .		0