

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	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
2	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
3	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
4	Siamese-Gap Network for Early Detection of Knee Osteoarthritis. , 2022, , .		5
5	A topology constrained geometric deformable model for medical image segmentation. Biomedical Signal Processing and Control, 2021, 64, 102299.	3.5	0
6	Multi-resolution Texture Analysis for Osteoporosis Classification. Lecture Notes in Networks and Systems, 2021, , 769-779.	0.5	1
7	Hierarchical Multiscale Local Binary Pattern For Better Osteoporosis Detection. , 2021, , .		0
8	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
9	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
10	A novel 3D dual active contours approach. Pattern Analysis and Applications, 2020, 23, 581-591.	3.1	0
11	Texture Analysis and Genetic Algorithms for Osteoporosis Diagnosis. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2057002.	0.7	4
12	Fusing convolutional neural network features with hand-crafted features for osteoporosis diagnoses. Neurocomputing, 2020, 385, 300-309.	3.5	26
13	Multifractal-based lacunarity analysis of trabecular bone in radiography. Computers in Biology and Medicine, 2020, 116, 103559.	3.9	10
14	Integrative blockwise sparse analysis for tissue characterization and classification. Artificial Intelligence in Medicine, 2020, 107, 101885.	3.8	7
15	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
16	Session details: Theme: AI and agents: CIVIA - Computational intelligence and video & image analysis track. , 2020, , .		0
17	Guest Editorial: Advances in Computational Intelligence for Multimodal Biomedical Imaging. Multimedia Tools and Applications, 2019, 78, 12639-12645.	2.6	0
18	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

#	ARTICLE	IF	CITATIONS
19	Trabecular Bone Texture Characterization Using Regularization Dimension and Box-counting Dimension. , 2019, , .		2
20	A New Complex Wavelet Relative Phase for Osteoporosis Diagnosis. , 2019, , .		0
21	Evaluation of fractional Brownian motion synthesis methods using the SVM classifier. Biomedical Signal Processing and Control, 2019, 49, 48-56.	3.5	5
22	Robust, blind multichannel image identification and restoration using stack decoder. IET Image Processing, 2019, 13, 475-482.	1.4	6
23	Knee Osteoarthritis Detection Using Power Spectral Density: Data from the OsteoArthritis Initiative. Lecture Notes in Computer Science, 2019, , 480-487.	1.0	4
24	Ensembles of sparse classifiers for osteoporosis characterization in digital radiographs. , 2019, , .		1
25	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
26	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
27	Ischemic stroke enhancement using a variational model and the expectation maximization method. European Radiology, 2018, 28, 3936-3942.	2.3	2
28	Oriented fractal analysis for improved bone microarchitecture characterization. Biomedical Signal Processing and Control, 2018, 39, 474-485.	3.5	22
29	A new weighted normal-based filter for 3D mesh denoising. , 2018, , .		0
30	Discrimination of Osteopathic Patients using Logistic Regression Model. , 2018, , .		0
31	Analysis of under-connectivity in Autism using the minimum spanning tree: application on large multi-site dataset. , 2018, , .		4
32	Blind Stereoscopic Image Quality Assessment Using Convolutional Neural Networks and Support Vector Regression. , 2018, , .		2
33	Study of the relative magnitude in the wavelet domain for texture characterization. Signal, Image and Video Processing, 2018, 12, 1403-1410.	1.7	2
34	Ischemic stroke enhancement in computed tomography scans using a computational approach. , 2018, , .		0
35	Special Section Guest Editorial: Perceptually Driven Visual Information Analysis. Journal of Electronic Imaging, 2017, 25, 061601.	0.5	0
36	Anisotropic Discrete Dual-Tree Wavelet Transform for Improved Classification of Trabecular Bone. IEEE Transactions on Medical Imaging, 2017, 36, 2077-2086.	5.4	25

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37	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
38	Diagnosis of osteoporosis disease from bone X-ray images with stacked sparse autoencoder and SVM classifier. , 2017, , .		13
39	Classification of the trabecular bone structure of osteoporotic patients using machine vision. Computers in Biology and Medicine, 2017, 91, 148-158.	3.9	50
40	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
41	Subchondral tibial bone texture analysis predicts knee osteoarthritis progression: data from the Osteoarthritis Initiative. Osteoarthritis and Cartilage, 2017, 25, 259-266.	0.6	43
42	Trabecular bone characterization using circular parametric models. Biomedical Signal Processing and Control, 2017, 33, 411-421.	3.5	19
43	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
44	A proposed computer-aided diagnosis system for Parkinson's disease classification using 123I-FP-CIT imaging. , 2017, , .		4
45	Osteoporosis diagnosis using frequency separation and fractional Brownian motion. , 2017, , .		1
46	Segmentation of muscle and skeletal tissues in HR-pQCT images. , 2017, , .		0
47	Fully anisotropic morlet transform for the study of the trabecular bone texture variations. , 2017, , .		1
48	Histogram of Oriented Gradients and Texture Features for Bone Texture Characterization. International Journal of Computer Applications, 2017, 165, 23-28.	0.2	2
49	Dual active contours model for HR-pQCT cortical bone segmentation. , 2016, , .		3
50	Sequential stack decoder for multichannel image restoration. , 2016, , .		0
51	On the use of image quality measures for image restoration. , 2016, , .		1
52	Trabecular bone texture classification using wavelet leaders. Proceedings of SPIE, 2016, , .	0.8	5
53	Fuzzy energy based active contours model for HR-PQCT cortical bone segmentation. , 2016, , .		3
54	Segmentation of nanotomographic cortical bone images for quantitative characterization of the osteocyte lacuno-canalicular network. AIP Conference Proceedings, 2016, , .	0.3	4

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55	Texture classification using relative phase and Gaussian mixture models in the complex wavelet domain. , 2016, , .		1
56	Trabecular Bone Radiograph Characterization Using Lacunarity Measurement. , 2016, , .		1
57	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
58	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
59	Association Between Individual Calf Muscle Volume And Achilles Tendon Enthesis Morphology. Medicine and Science in Sports and Exercise, 2015, 47, 96.	0.2	0
60	ROI impact on the characterization of knee osteoarthritis using fractal analysis. , 2015, , .		7
61	The use of dual-energy X-ray absorptiometry images to evaluate the risk of bone fracture. , 2015, , .		0
62	Osteoporosis diagnosis using steerable pyramid decomposition and fractional Brownian motion. , 2015, , .		2
63	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
64	Fracture Discrimination by Combined Bone Mineral Density (BMD) and Microarchitectural Texture Analysis. Calcified Tissue International, 2015, 96, 274-283.	1.5	29
65	Quantification of Trabecular Bone Porosity on X-Ray Images. Journal of Industrial and Intelligent Information, 2015, 3, .	0.1	3
66	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
67	Investigation of the meteorites porosity by X-ray tomography and 3D image processing. , 2014, , .		1
68	Osteoporosis Diagnosis Using Fractal Analysis and Support Vector Machine. , 2014, , .		17
69	A variational model for trabecular bone radiograph characterization. , 2014, , .		5
70	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
71	One dimensional local binary pattern for bone texture characterization. Pattern Analysis and Applications, 2014, 17, 179-193.	3.1	55
72	3D reconstruction method of the proximal femur and shape correction. , 2014, , .		5

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73	Piecewise Whittle estimator for trabecular bone radiograph characterization. Biomedical Signal Processing and Control, 2013, 8, 657-666.	3.5	29
74	Combined finite element model of human proximal femur behaviour considering remodeling and fracture. Irbm, 2013, 34, 191-195.	3.7	8
75	Osteoporosis assessment using Multilayer Perceptron neural networks. , 2012, , .		9
76	Texture characterization using local binary pattern and wavelets. Application to bone radiographs. , 2012, , .		4
77	Early diagnosis of osteoporosis using Artificial Neural Networks and Support Vector Machines. , 2012, , .		1
78	Texture Analysis for Trabecular Bone X-Ray Images Using Anisotropic Morlet Wavelet and RÃ©nyi Entropy. Lecture Notes in Computer Science, 2012, , 290-297.	1.0	7
79	Texture analysis using dual tree M-band and Rényi entropy. Application to osteoporosis diagnosis on bone radiographs. , 2012, , .		4
80	Assessment of bone mineral density and radiographic texture analysis at the tibial subchondral bone. Osteoporosis International, 2012, 23, 871-876.	1.3	11
81	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
82	Modeling of biological doses and mechanical effects on bone transduction. Journal of Theoretical Biology, 2011, 274, 36-42.	0.8	16
83	3D shape-dependent thinning method for trabecular bone characterization. Medical Physics, 2011, 39, 168-178.	1.6	8
84	Non-destructive characterization: By 3D image processing of Moroccan meteorites. , 2011, , .		1
85	3D Image Analysis and Artificial Intelligence for Bone Disease Classification. Journal of Medical Systems, 2010, 34, 815-828.	2.2	20
86	Genetic algorithm and image processing for osteoporosis diagnosis. , 2010, 2010, 5597-600.		16
87	Trabecular Bone Anisotropy Characterization Using 1D Local Binary Patterns. Lecture Notes in Computer Science, 2010, , 105-113.	1.0	9
88	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
89	Estimation of the 3D self-similarity parameter of trabecular bone from its 2D projection. Medical Image Analysis, 2007, 11, 91-98.	7.0	58
90	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

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91	Piecewise fractional Brownian motion. IEEE Transactions on Signal Processing, 2005, 53, 1211-1215.	3.2	16
92	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
93	Fractal analysis of bone X-ray tomographic microscopy projections. IEEE Transactions on Medical Imaging, 2001, 20, 443-449.	5.4	61
94	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
95	Fractal Analysis of Trabecular Bone Texture on Radiographs: Discriminant Value in Postmenopausal Osteoporosis. Osteoporosis International, 1998, 8, 618-626.	1.3	148
96	Fractal organization of trabecular bone images on calcaneus radiographs. Journal of Bone and Mineral Research, 1994, 9, 1909-1918.	3.1	168