Mohammed Benjelloun

List of Publications by Year
in descending order

63 papers	**642** citations	759055 **12** h-index	713332 **21** g-index
63 all docs	**63** docs citations	**63** times ranked	**568** citing authors

#	Article	IF	Citations
1	Early prediction of neoadjuvant treatment outcome in locally advanced breast cancer using parametric response mapping and radial heterogeneity from breast MRI. Journal of Magnetic Resonance Imaging, 2020, 51, 1403-1411.	1.9	10
2	Multi-input deep learning architecture for predicting breast tumor response to chemotherapy using quantitative MR images. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1491-1500.	1.7	42
3	Epileptic seizure detection using EEG signals and extreme gradient boosting. Journal of Biomedical Research, 2020, 34, 228.	0.7	21
4	Towards Breast Cancer Response Prediction using Artificial Intelligence and Radiomics. , 2020, , .		9
5	MRI Breast Tumor Segmentation Using Different Encoder and Decoder CNN Architectures. Computers, 2019, 8, 52.	2.1	69
6	Cloud-Based Image Retrieval Using GPU Platforms. Computers, 2019, 8, 48.	2.1	7
7	Predict Breast Tumor Response to Chemotherapy Using a 3D Deep Learning Architecture Applied to DCE-MRI Data. Lecture Notes in Computer Science, 2019, , 33-40.	1.0	4
8	Deep Learning approach predicting breast tumor response to neoadjuvant treatment using DCE-MRI volumes acquired before and after chemotherapy. , 2019, , .		5
9	Development and external validation of a deep learning model for predicting response to HER2-targeted neoadjuvant therapy from pretreatment breast MRI.. Journal of Clinical Oncology, 2019, 37, 593-593.	0.8	5
10	Automated Breast Tumor Segmentation in DCE-MRI Using Deep Learning. , 2018, , .		22
11	An IMM Filter Defined in the Linear-Circular Domain, Application to Maneuver Detection with Heading Only. Mathematical Problems in Engineering, 2018, 2018, 1-14.	0.6	1
12	Content-based 3D shape retrieval using deep learning approach. , 2018, , .		0
13	A PRM approach for early prediction of breast cancer response to chemotherapy based on registered MR images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1233-1243.	1.7	19
14	A Texture Analysis Approach for Spine Metastasis Classification in T1 and T2 MRI. Lecture Notes in Computer Science, 2018, , 198-211.	1.0	3
15	GPU-based Acceleration of Methods based on Clock Matching Metric for Large Scale 3D Shape Retrieval. Scalable Computing, 2018, 19, .	0.7	1
16	Analyzing breast tumor heterogeneity to predict the response to chemotherapy using 3D MR images registration. , 2017, , .		8
17	Circular particle fusion filter applied to map matching. IET Intelligent Transport Systems, 2017, 11, 491-500.	1.7	4
18	High rate interference pattern technique applied to real time altimetry. , 2016, , .		0

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19	Indoor localization by particle map matching. , 2016, , .		2
20	Accurate Pseudorange Estimation by Means of Code and Phase Delay Integration: Application to GNSS-R Altimetry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4854-4864.	2.3	11
21	Normalized GNSS Interference Pattern Technique for Altimetry. Sensors, 2014, 14, 10234-10257.	2.1	14
22	Calibration of the GNSS signal amplitudes in the Interference Pattern Technique for altimetry. , 2014, , .		0
23	A map matching algorithm based on a particle filter. , 2014, , .		4
24	Vertebra identification using template matching modelmp and $$K$$ K -means clustering. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 177-187.	1.7	31
25	A Portable Multi-CPU/Multi-GPU Based Vertebra Localization in Sagittal MR Images. Lecture Notes in Computer Science, 2014, , 209-218.	1.0	6
26	Estimation of a semi-physical GLBE model using dual EnKF learning algorithm coupled with a sensor network design strategy: Application to air field monitoring. Information Fusion, 2013, 14, 335-348.	11.7	2
27	Semi-physical neural modeling for linear signal restoration. Neural Networks, 2013, 38, 90-101.	3.3	1
28	Non-Linear Fusion of Observations Provided by Two Sensors. Entropy, 2013, 15, 2698-2715.	1.1	1
29	Three-Dimensional Spine Model Reconstruction Using One-Class SVM Regularization. IEEE Transactions on Biomedical Engineering, 2013, 60, 3256-3264.	2.5	11
30	Using Global Shape Descriptors for Content Medical-Based Image Retrieval. , 2013, , 492-502.		1
31	Fully automatic vertebra detection in x-ray images based on multi-class SVM. Proceedings of SPIE, 2012, , .	0.8	23
32	Multilevel statistical shape models: A new framework for modeling hierarchical structures. , 2012, , .		8
33	Boosting Open-Source Database Engines with Graphics Processors. , 2012, , .		2
34	Cervical spine mobility analysis on radiographs: A fully automatic approach. Computerized Medical Imaging and Graphics, 2012, 36, 634-642.	3.5	8
35	Semi-automatic detection of cervical vertebrae in X-ray images using generalized hough transform. , 2012, , .		25
36	Circular data processing tools applied to a Phase Open Loop architecture for multi-channels signals tracking. , 2012, , .		6

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37	GNSS code and phase processing techniques in a ground-based mobile altimetry system. , 2012, , .		0
38	Descriptive Image Feature for Object Detection in Medical Images. Lecture Notes in Computer Science, 2012, , 331-338.	1.0	10
39	Fast 3D Spine Reconstruction of Postoperative Patients Using a Multilevel Statistical Model. Lecture Notes in Computer Science, 2012, 15, 446-453.	1.0	11
40	Heterogeneous Computing for Vertebra Detection and Segmentation in X-Ray Images. International Journal of Biomedical Imaging, 2011, 2011, 1-12.	3.0	29
41	A Framework of Vertebra Segmentation Using the Active Shape Model-Based Approach. International Journal of Biomedical Imaging, 2011, 2011, 1-14.	3.0	38
42	Points of interest detection in cervical spine radiographs by polygonal approximation. , 2010, , .		6
43	GPU-based segmentation of cervical vertebra in X-Ray images. , 2010, , .		24
44	Vehicle Localization Via Sensor Fusion Using Evidence Theory. Navigation, Journal of the Institute of Navigation, 2009, 56, 23-33.	1.7	3
45	A recursive fusion filter for angular data. , 2009, , .		31
46	Correlation-based particle filter for 3D object tracking. Integrated Computer-Aided Engineering, 2009, 16, 165-177.	2.5	12
47	Spine Localization in X-ray Images Using Interest Point Detection. Journal of Digital Imaging, 2009, 22, 309-318.	1.6	34
48	Performance Analysis of GPS/INS Integrated System by Using a Non-Linear Mathematical Model. Lecture Notes in Electrical Engineering, 2009, , 3-14.	0.3	0
49	A recursive change point estimate of the wind speed and direction. , 2009, , .		4
50	X-ray image segmentation for vertebral mobility analysis. International Journal of Computer Assisted Radiology and Surgery, 2008, 2, 371-383.	1.7	16
51	Performance analysis of GPS/INS integrated system by using a non-linear mathematical model. , 2008, , .		0
52	Inertial navigation attitude velocity and position algorithms using quaternion Scaled Unscented Kalman filtering. , 2008, , .		4
53	Corner Points Detection for Vertebral Mobility Analysis. , 2007, , .		3
54	A model-based vertebral segmentation method using GVF and ASM. , 2007, , .		2

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55	Mobility Estimation and Analysis in Medical X-ray Images Using Corners and Faces Contours Detection. , 2007, , .		5
56	Spine Localization and Vertebral Mobility Analysis Using Faces Contours Detection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6558-61.	0.5	3
57	INVERSION OF A SEMI-PHYSICAL DISPERSION MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 139-144.	0.4	1
58	Bayesian off-line segmentation applied to multi-carrier GPS signals fusion. , 2007, , .		0
59	A New Approach for Cervical Vertebrae Segmentation. , 2007, , 753-762.		5
60	A k-Means Clustering Algorithm Initialization for Unsupervised Statistical Satellite Image Segmentation. , 2006, , .		11
61	Information Fusion in a Hybrid Tightly Coupled GPS/Dead-Reckoning Positioning System. , 2006, , .		4
62	3D STRUCTURE AND MOTION ESTIMATION FROM RANGE AND INTENSITY IMAGES USING PARTICLE FILTERING. International Journal of Image and Graphics, 2005, 05, 639-661.	1.2	0
63	Semi-Automatic Vertebra Segmentation. , 0, , 110-124.		0