Farida Cheriet

List of Publications by Year in descending order

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86	2,357	218677	223800
papers	citations	26 h-index	46 g-index

88	88	88	2781
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A simulation study investigating potential diffusion-based MRI signatures of microstrokes. Scientific Reports, 2021, 11, 14229.	3.3	4
2	An automatic diagnostic system of coronary artery lesions in Kawasaki disease using intravascular optical coherence tomography imaging. Journal of Biophotonics, 2020, 13, e201900112.	2.3	16
3	3D reconstruction of the human trunk for designing personalized braces : Precision study. , 2020, 2020, 5806-5809.		0
4	Modeling the Topology of Cerebral Microvessels Via Geometric Graph Contraction. , 2020, , .		2
5	A Novel Weakly Supervised Multitask Architecture for Retinal Lesions Segmentation on Fundus Images. IEEE Transactions on Medical Imaging, 2019, 38, 2434-2444.	8.9	62
6	Joint segmentation and classification of retinal arteries/veins from fundus images. Artificial Intelligence in Medicine, 2019, 94, 96-109.	6.5	78
7	Intra-Slice Motion Correction of Intravascular OCT Images Using Deep Features. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 931-941.	6.3	1
8	To distinguish flexible and rigid lumbar curve from MRI texture analysis in adolescent idiopathic scoliosis: A feasibility study. Journal of Magnetic Resonance Imaging, 2018, 48, 178-187.	3.4	10
9	Flexible architectures for retinal blood vessel segmentation in high-resolution fundus images. Journal of Real-Time Image Processing, 2018, 15, 31-42.	3.5	6
10	An Efficient FPGA-based Overlay Inference Architecture for Fully Connected DNNs. , 2018, , .		12
11	Characterization of coronary artery pathological formations from OCT imaging using deep learning. Biomedical Optics Express, 2018, 9, 4936.	2.9	51
12	A Multitask Learning Architecture for Simultaneous Segmentation of Bright and Red Lesions in Fundus Images. Lecture Notes in Computer Science, 2018, , 101-108.	1.3	19
13	Statistical atlas-based descriptor for an early detection of optic disc abnormalities. Journal of Medical Imaging, 2018, 5, 1.	1.5	3
14	Particle swarm optimization method for small retinal vessels detection on multiresolution fundus images. Journal of Biomedical Optics, 2018, 23, 1.	2.6	6
15	Robust universal nonrigid motion correction framework for firstâ€pass cardiac MR perfusion imaging. Journal of Magnetic Resonance Imaging, 2017, 46, 1060-1072.	3.4	23
16	Assessment of Breast Asymmetry in Adolescent Idiopathic Scoliosis Using an Automated 3D Body Surface Measurement Technique. Spine Deformity, 2017, 5, 152-158.	1.5	10
17	A novel fully automatic measurement of apparent breast volume from trunk surface mesh. Medical Engineering and Physics, 2017, 41, 46-54.	1.7	8
18	Artery/vein classification in fundus images using CNN and likelihood score propagation. , 2017, , .		14

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19	Application of an RGBD augmented Câ€arm for minimally invasive scoliosis surgery assistance. Healthcare Technology Letters, 2017, 4, 179-183.	3.3	1
20	Deep feature learning for automatic tissue classification of coronary artery using optical coherence tomography. Biomedical Optics Express, 2017, 8, 1203.	2.9	103
21	Retinal Vessel Segmentation from a Hyperspectral Camera Images. Lecture Notes in Computer Science, 2017, , 559-566.	1.3	0
22	A Novel Automatic Method to Evaluate Scoliotic Trunk Shape Changes in Different Postures. Lecture Notes in Computer Science, 2017, , 455-462.	1.3	0
23	Memory efficient Multi-Scale Line Detector architecture for retinal blood vessel segmentation. , 2016, , .		1
24	Segmentation of the spinous process and its acoustic shadow in vertebral ultrasound images. Computers in Biology and Medicine, 2016, 72, 201-211.	7.0	35
25	Computer-Aided Diagnosis for Chest Radiographs in Intensive Care. Journal of Pediatric Intensive Care, 2016, 05, 113-121.	0.8	4
26	A multi-scale tensor voting approach for small retinal vessel segmentation in high resolution fundus images. Computerized Medical Imaging and Graphics, 2016, 52, 28-43.	5.8	62
27	Red Lesion Detection Using Dynamic Shape Features for Diabetic Retinopathy Screening. IEEE Transactions on Medical Imaging, 2016, 35, 1116-1126.	8.9	225
28	Longitudinal Scoliotic Trunk Analysis via Spectral Representation and Statistical Analysis. Lecture Notes in Computer Science, 2016, , 79-91.	1.3	3
29	Patientâ€specific anisotropic model of human trunk based on MR data. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, e02724.	2.1	0
30	A run-length encoding co-processor for retinal image texture analysis. , 2015, , .		0
31	Automatic nonrigid motion correction for quantitative first-pass cardiac MR perfusion imaging. , 2015, , .		3
32	Changes in Trunk Appearance After Scoliosis Spinal Surgery and Their Relation to Changes in Spinal Measurements. Spine Deformity, 2015, 3, 595-603.	1.5	11
33	Automatic Segmentation of Vertebrae in Ultrasound Images. Lecture Notes in Computer Science, 2015, , 344-351.	1.3	2
34	Dynamic tracking of magnetic nanoparticles for mapping microvascular networks using a clinical 1.5 T magnetic resonance scanner. Applied Physics Letters, 2014, 104, .	3.3	5
35	Spectral Log-Demons: Diffeomorphic Image Registration with Very Large Deformations. International Journal of Computer Vision, 2014, 107, 254-271.	15.6	87
36	Is Breast Asymmetry Present in Girls with Adolescent Idiopathic Scoliosis?. Spine Deformity, 2014, 2, 374-379.	1.5	10

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37	Computer-aided diagnosis system for the Acute Respiratory Distress Syndrome from chest radiographs. Computers in Biology and Medicine, 2014, 52, 41-48.	7.0	21
38	Multimodal image registration of the scoliotic torso for surgical planning. BMC Medical Imaging, 2013, 13, 1.	2.7	14
39	Noninvasive Clinical Assessment of Trunk Deformities Associated With Scoliosis. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 392-401.	6.3	6
40	Evidence-based clinical tool for quantitative analysis of posture in children and adolescents with idiopathic scoliosis. Scoliosis, 2013, 8, .	0.4	1
41	Multimodal image fusion of anatomical structures for diagnosis, therapy planning and assistance. , 2013, , .		0
42	Scoliosis Follow-Up Using Noninvasive Trunk Surface Acquisition. IEEE Transactions on Biomedical Engineering, 2013, 60, 2262-2270.	4.2	13
43	Personalized 3D reconstruction of the rib cage for clinical assessment of trunk deformities. Medical Engineering and Physics, 2013, 35, 1651-1658.	1.7	10
44	FOCUSR: Feature Oriented Correspondence Using Spectral Regularization--A Method for Precise Surface Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2143-2160.	13.9	64
45	Non-invasive quantitative assessment of scoliosis spinal surgery outcome. Proceedings of SPIE, 2013, , .	0.8	0
46	Differences in Standing and Sitting Postures of Youth with Idiopathic Scoliosis from Quantitative Analysis of Digital Photographs. Physical and Occupational Therapy in Pediatrics, 2013, 33, 313-326.	1.3	14
47	Groupwise Spectral Log-Demons Framework for Atlas Construction. Lecture Notes in Computer Science, 2013, , 11-19.	1.3	5
48	Multilevel Analysis of Trunk Surface Measurements for Noninvasive Assessment of Scoliosis Deformities. Spine, 2012, 37, E1045-E1053.	2.0	13
49	Human Atlas of the Cardiac Fiber Architecture: Study on a Healthy Population. IEEE Transactions on Medical Imaging, 2012, 31, 1436-1447.	8.9	201
50	A novel method for an automatic 3D reconstruction of coronary arteries from angiographic images. , 2012, , .		3
51	3D registration of MR and X-ray spine images using an articulated model. Computerized Medical Imaging and Graphics, 2012, 36, 410-418.	5.8	20
52	Reliability of a quantitative clinical posture assessment tool among persons with idiopathic scoliosis. Physiotherapy, 2012, 98, 64-75.	0.4	60
53	Semiautomatic Detection of Scoliotic Rib Borders From Posteroanterior Chest Radiographs. IEEE Transactions on Biomedical Engineering, 2012, 59, 909-919.	4.2	8
54	Variability of the HumanÂCardiacÂLaminarÂStructure. Lecture Notes in Computer Science, 2012, , 160-167.	1.3	3

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55	Statistical Atlas of Human Cardiac Fibers: Comparison with Abnormal Hearts. Lecture Notes in Computer Science, 2012, , 207-213.	1.3	11
56	Spectral Demons â€“ Image Registration via Global Spectral Correspondence. Lecture Notes in Computer Science, 2012, , 30-44.	1.3	15
57	Clinical methods for quantifying body segment posture: a literature review. Disability and Rehabilitation, 2011, 33, 367-383.	1.8	96
58	A Novel Method for the 3-D Reconstruction of Scoliotic Ribs From Frontal and Lateral Radiographs. IEEE Transactions on Biomedical Engineering, 2011, 58, 1135-1146.	4.2	17
59	Detection and correction of specular reflections for automatic surgical tool segmentation in thoracoscopic images. Machine Vision and Applications, 2011, 22, 171-180.	2.7	52
60	Fast Brain Matching with Spectral Correspondence. Lecture Notes in Computer Science, 2011, 22, 660-673.	1.3	20
61	Validity of a Quantitative Clinical Measurement Tool of Trunk Posture in Idiopathic Scoliosis. Spine, 2010, 35, E988-E994.	2.0	59
62	Prediction of scoliosis progression with serial three-dimensional spinal curves and the artificial progression surface technique. Medical and Biological Engineering and Computing, 2010, 48, 1065-1075.	2.8	8
63	Self-Calibration of Biplanar Radiographic Images Through Geometric Spine Shape Descriptors. IEEE Transactions on Biomedical Engineering, 2010, 57, 1663-1675.	4.2	14
64	3D reconstruction of the human spine from radiograph(s) using a multi-body statistical model. Proceedings of SPIE, 2009, , .	0.8	1
65	Texture Analysis for Automatic Segmentation of Intervertebral Disks of Scoliotic Spines From MR Images. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 608-620.	3.2	58
66	Personalized X-Ray 3-D Reconstruction of the Scoliotic Spine From Hybrid Statistical and Image-Based Models. IEEE Transactions on Medical Imaging, 2009, 28, 1422-1435.	8.9	56
67	A three-dimensional retrospective analysis of the evolution of spinal instrumentation for the correction of adolescent idiopathic scoliosis. European Spine Journal, 2009, 18, 23-37.	2.2	65
68	Three-dimensional Subclassification of Lenke Type 1 Scoliotic Curves. Journal of Spinal Disorders and Techniques, 2009, 22, 135-143.	1.9	25
69	Optimal 3D reconstruction of coronary arteries for 3D clinical assessment. Computerized Medical Imaging and Graphics, 2008, 32, 476-487.	5.8	10
70	Articulated Spine Models for 3-D Reconstruction From Partial Radiographic Data. IEEE Transactions on Biomedical Engineering, 2008, 55, 2565-2574.	4.2	41
71	Geometric Variability of the Scoliotic Spine Using Statistics on Articulated Shape Models. IEEE Transactions on Medical Imaging, 2008, 27, 557-568.	8.9	71
72	A video stream processor for real-time detection and correction of specular reflections in endoscopic images. , 2008, , .		24

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73	Three-Dimensional Reconstruction of the Scoliotic Spine and Pelvis From Uncalibrated Biplanar x-Ray Images. Journal of Spinal Disorders and Techniques, 2007, 20, 160-167.	1.9	29
74	Preliminary Evaluation of a Computer-Assisted Tool for the Design and Adjustment of Braces in Idiopathic Scoliosis. Spine, 2007, 32, 835-843.	2.0	36
75	Reliability of trunk shape measurements based on 3-D surface reconstructions. European Spine Journal, 2007, 16, 1882-1891.	2.2	80
76	A versatile 3D reconstruction system of the spine and pelvis for clinical assessment of spinal deformities. Medical and Biological Engineering and Computing, 2007, 45, 591-602.	2.8	71
77	Automatic Closed Edge Detection Using Level Lines Selection. Lecture Notes in Computer Science, 2007, , 187-197.	1.3	4
78	Three-Dimensional Classification of Spinal Deformities Using Fuzzy Clustering. Spine, 2006, 31, 923-930.	2.0	60
79	Towards an Automatic Coronary Artery Segmentation Algorithm. , 2006, 2006, 3037-40.		6
80	Principal Spine Shape Deformation Modes Using Riemannian Geometry and Articulated Models. Lecture Notes in Computer Science, 2006, , 346-355.	1.3	13
81	Towards an Automatic Coronary Artery Segmentation Algorithm. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
82	Prediction of anterior scoliotic spinal curve from trunk surface using support vector regression. Engineering Applications of Artificial Intelligence, 2005, 18, 973-983.	8.1	37
83	Bayesian Differentiation of Multi-scale Line-Structures for Model-Free Instrument Segmentation in Thoracoscopic Images. Lecture Notes in Computer Science, 2005, , 938-948.	1.3	2
84	Three-Dimensional (3-D) Reconstruction of the Spine From a Single X-Ray Image and Prior Vertebra Models. IEEE Transactions on Biomedical Engineering, 2004, 51, 1628-1639.	4.2	30
85	Segmentation of Laparoscopic Images for Computer Assisted Surgery. Lecture Notes in Computer Science, 2003, , 587-594.	1.3	5
86	Uncertainty assessment of vessels width measurement from intensity profile model fitting in fundus images. , 0, , .		2