

Ahmed A Elnakib

List of Publications by Year in descending order

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83
papers

1,557
citations

394421

19
h-index

395702

33
g-index

83
all docs

83
docs citations

83
times ranked

1462
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensemble deep learning system for early breast cancer detection. <i>Evolutionary Intelligence</i> , 2023, 16, 1045-1054.	3.6	5
2	Deep segmentation of the liver and the hepatic tumors from abdomen tomography images. <i>International Journal of Electrical and Computer Engineering</i> , 2022, 12, 303.	0.7	1
3	The Role of Structure MRI in Diagnosing Autism. <i>Diagnostics</i> , 2022, 12, 165.	2.6	14
4	The Role of Different Retinal Imaging Modalities in Predicting Progression of Diabetic Retinopathy: A Survey. <i>Sensors</i> , 2022, 22, 3490.	3.8	14
5	FPGA-based reservoir computing system for ECG denoising. <i>Microprocessors and Microsystems</i> , 2022, 91, 104549.	2.8	6
6	Segmentation of Infant Brain Using Nonnegative Matrix Factorization. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5377.	2.5	7
7	Computational methods for identifying left ventricle heart pathologies. , 2021, , 59-93.		0
8	Automated early breast cancer detection and classification system. <i>Signal, Image and Video Processing</i> , 2021, 15, 1497-1505.	2.7	19
9	An Automated CAD System for Accurate Grading of Uveitis Using Optical Coherence Tomography Images. <i>Sensors</i> , 2021, 21, 5457.	3.8	5
10	The Role of Diffusion Tensor MR Imaging (DTI) of the Brain in Diagnosing Autism Spectrum Disorder: Promising Results. <i>Sensors</i> , 2021, 21, 8171.	3.8	13
11	ECG Denoising using a Single-Node Dynamic Reservoir Computing Architecture. (Dept. E). <i>MEJ - Mansoura Engineering Journal</i> , 2021, 46, 47-52.	0.1	3
12	Early Lung Cancer Detection using Deep Learning Optimization. <i>International Journal of Online and Biomedical Engineering</i> , 2020, 16, 82.	1.4	17
13	Automated Diabetic Retinopathy Grading using Resnet. , 2020, , .		30
14	A New Framework for Performing Cardiac Strain Analysis from Cine MRI Imaging in Mice. <i>Scientific Reports</i> , 2020, 10, 7725.	3.3	18
15	Linear Wireless Sensor Networks Energy Minimization Using Optimal Placement Strategies of Nodes. <i>Wireless Personal Communications</i> , 2020, 114, 2841-2854.	2.7	13
16	Age-invariant face recognition based on deep features analysis. <i>Signal, Image and Video Processing</i> , 2020, 14, 1027-1034.	2.7	26
17	Optimization of deep learning features for age-invariant face recognition. <i>International Journal of Electrical and Computer Engineering</i> , 2020, 10, 1833.	0.7	4
18	Deep Joint Segmentation of Liver and Cancerous Nodules From Ct Images. , 2020, , .		1

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19	Computer aided detection system for early cancerous pulmonary nodules by optimizing deep learning features. , 2019, , .		1
20	Antenna array thinning for interference mitigation in multi-directional antenna subset modulation. Physical Communication, 2018, 26, 31-39.	2.1	4
21	Broadcasting Multi-beams Antenna Subset Modulation for Secure Millimeter-Wave Wireless Communications. Wireless Personal Communications, 2017, 97, 3503-3517.	2.7	3
22	Accurate Lungs Segmentation on CT Chest Images by Adaptive Appearance-Guided Shape Modeling. IEEE Transactions on Medical Imaging, 2017, 36, 263-276.	8.9	80
23	Infant Brain Extraction in T1-Weighted MR Images Using BET and Refinement Using LCDG and MGRF Models. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 925-935.	6.3	36
24	Analysis of 3D Corpus Callosum Images in the Brains of Autistic Individuals. Advances in Medical Diagnosis, Treatment, and Care, 2016, , 159-184.	0.1	0
25	Segmentation of infant brain MR images based on adaptive shape prior and higher-order MGRF. , 2015, , .		6
26	Segmentation of pathological lungs from CT chest images. , 2015, , .		3
27	Intramyocardial strain estimation from cardiac cine MRI. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1299-1312.	2.8	7
28	Effects of Physiologic Mechanical Stimulation on Embryonic Chick Cardiomyocytes Using a Microfluidic Cardiac Cell Culture Model. Analytical Chemistry, 2015, 87, 2107-2113.	6.5	42
29	A statistical framework for the classification of infant DT images. , 2014, , .		3
30	An integrated geometrical and stochastic approach for accurate infant brain extraction. , 2014, , .		6
31	A novel 4D PDE-based approach for accurate assessment of myocardium function using cine cardiac magnetic resonance images. , 2014, , .		7
32	Magnetic Resonance Imaging Findings for Dyslexia: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2778-2805.	1.1	30
33	Cortical surface complexity in a population-based normative sample. Translational Neuroscience, 2014, 5, .	1.4	18
34	<I>In-Vitro</I> and <I>In-Vivo</I> Diagnostic Techniques for Prostate Cancer: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2747-2777.	1.1	24
35	Focal cortical dysplasias in autism spectrum disorders. Acta Neuropathologica Communications, 2013, 1, 67.	5.2	117
36	A new shape-based framework for the left ventricle wall segmentation from cardiac first-pass perfusion mri. , 2013, , .		11

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37	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. <i>Medical Physics</i> , 2013, 40, 092302.	3.0	31
38	Kidney segmentation using graph cuts and pixel connectivity. <i>Pattern Recognition Letters</i> , 2013, 34, 1470-1475.	4.2	26
39	Computer-Aided Diagnosis Systems for Lung Cancer: Challenges and Methodologies. <i>International Journal of Biomedical Imaging</i> , 2013, 2013, 1-46.	3.9	158
40	Automatic Detection of 2D and 3D Lung Nodules in Chest Spiral CT Scans. <i>International Journal of Biomedical Imaging</i> , 2013, 2013, 1-11.	3.9	27
41	Validating a new methodology for strain estimation from cardiac cine MRI. , 2013, , .		4
42	Accurate segmentation framework for the left ventricle wall from cardiac cine MRI. , 2013, , .		9
43	A diffusion-weighted imaging based diagnostic system for early detection of prostate cancer. <i>Journal of Biomedical Science and Engineering</i> , 2013, 06, 346-356.	0.4	28
44	MAP-Based Framework for Segmentation of MR Brain Images Based on Visual Appearance and Prior Shape. , 2013, , .		3
45	A novel image-based approach for early detection of prostate cancer. , 2012, , .		10
46	Dyslexia Diagnostics by 3-D Shape Analysis of the Corpus Callosum. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 700-708.	3.2	28
47	New automated Markov-Gibbs random field based framework for myocardial wall viability quantification on agent enhanced cardiac magnetic resonance images. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 1683-1698.	1.5	13
48	Modified Akaike information criterion for estimating the number of components in a probability mixture model. , 2012, , .		4
49	Improving full-cardiac cycle strain estimation from tagged CMR by accurate modeling of 3D image appearance characteristics. , 2012, , .		13
50	Accurate modeling of tagged CMR 3D image appearance characteristics to improve cardiac cycle strain estimation. , 2012, , .		10
51	Non-rigid biomedical image registration using graph cuts with a novel data term. , 2012, , .		7
52	Precise Segmentation of 3-D Magnetic Resonance Angiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2019-2029.	4.2	96
53	A Novel Approach for Global Lung Registration Using 3D Markov-Gibbs Appearance Model. <i>Lecture Notes in Computer Science</i> , 2012, 15, 114-121.	1.3	9
54	Autism Diagnostics by 3D Shape Analysis of the Corpus Callosum. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 2012, , 315-335.	0.4	11

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55	A new 3D automatic segmentation framework for accurate extraction of prostate from diffusion imaging. , 2011, , .		7
56	Non-Invasive Image-Based Approach for Early Detection of Prostate Cancer. , 2011, , .		8
57	Medical Image Segmentation: A Brief Survey. , 2011, , 1-39.		59
58	Elastic phantoms generated by microfluidics technology: Validation of an imagedâ€based approach for accurate measurement of the growth rate of lung nodules. Biotechnology Journal, 2011, 6, 195-203.	3.5	23
59	Accurate Automated Detection of Autism Related Corpus Callosum Abnormalities. Journal of Medical Systems, 2011, 35, 929-939.	3.6	40
60	3D Graph cut with new edge weights for cerebral white matter segmentation. Pattern Recognition Letters, 2011, 32, 941-947.	4.2	12
61	Autism diagnostics by centerline-based shape analysis of the Corpus Callosum. , 2011, , .		20
62	3D shape analysis of the brain cortex with application to autism. , 2011, , .		9
63	3D automatic approach for precise segmentation of the prostate from Diffusion-Weighted Magnetic Resonance Imaging. , 2011, , .		7
64	A new framework for automated segmentation of left ventricle wall from contrast enhanced cardiac magnetic resonance images. , 2011, , .		3
65	Quantitative analysis of the shape of the corpus callosum in patients with autism and comparison individuals. Autism, 2011, 15, 223-238.	4.1	55
66	3D shape analysis of the brain cortex with application to dyslexia. , 2011, , .		19
67	A new framework for automated identification of pathological tissues in contrast enhanced cardiac magnetic resonance images. , 2011, , .		6
68	A new 3D automatic segmentation framework for accurate segmentation of prostate from DCE-MRI. , 2011, , .		8
69	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 22, 772-783.	1.3	45
70	Fast, Accurate Unsupervised Segmentation of 3D Magnetic Resonance Angiography. , 2011, , 411-432.		4
71	Cerebral White Matter Segmentation using Probabilistic Graph Cut Algorithm. , 2011, , 41-67.		5
72	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 14, 175-182.	1.3	18

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73	3D Kidney Segmentation from CT Images Using a Level Set Approach Guided by a Novel Stochastic Speed Function. Lecture Notes in Computer Science, 2011, 14, 587-594.	1.3	35
74	Corpus callosum shape analysis with application to dyslexia. Translational Neuroscience, 2010, 1, 124-130.	1.4	22
75	Cerebral white matter segmentation from MRI using probabilistic graph cuts and geometric shape priors. , 2010, , .		8
76	Image-based detection of Corpus Callosum variability for more accurate discrimination between autistic and normal brains. , 2010, , .		8
77	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
78	Image-based detection of Corpus Callosum variability for more accurate discrimination between dyslexic and normal brains. , 2010, , .		19
79	A new validation approach for the growth rate measurement using elastic phantoms generated by state-of-the-art microfluidics technology. , 2010, , .		7
80	Dyslexia Diagnostics by Centerline-Based Shape Analysis of the Corpus Callosum. , 2010, , .		9
81	Novel Stochastic Framework for Accurate Segmentation of Prostate in Dynamic Contrast Enhanced MRI. Lecture Notes in Computer Science, 2010, , 121-130.	1.3	11
82	FPGA-based neuro-architecture intrusion detection system. , 2008, , .		5
83	Analysis of 3D Corpus Callosum Images in the Brains of Autistic Individuals. , 0, , 1529-1554.		0