

Ahmed A Elnakib

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/518833/publications.pdf>

Version: 2024-02-01

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	Computer-Aided Diagnosis Systems for Lung Cancer: Challenges and Methodologies. International Journal of Biomedical Imaging, 2013, 2013, 1-46.	3.9	158
2	Focal cortical dysplasias in autism spectrum disorders. Acta Neuropathologica Communications, 2013, 1, 67.	5.2	117
3	Precise Segmentation of 3-D Magnetic Resonance Angiography. IEEE Transactions on Biomedical Engineering, 2012, 59, 2019-2029.	4.2	96
4	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
5	Medical Image Segmentation: A Brief Survey. , 2011, , 1-39.		59
6	Quantitative analysis of the shape of the corpus callosum in patients with autism and comparison individuals. Autism, 2011, 15, 223-238.	4.1	55
7	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 22, 772-783.	1.3	45
8	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
9	Accurate Automated Detection of Autism Related Corpus Callosum Abnormalities. Journal of Medical Systems, 2011, 35, 929-939.	3.6	40
10	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
11	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
12	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. Medical Physics, 2013, 40, 092302.	3.0	31
13	Magnetic Resonance Imaging Findings for Dyslexia: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2778-2805.	1.1	30
14	Automated Diabetic Retinopathy Grading using Resnet. , 2020, , .		30
15	Dyslexia Diagnostics by 3-D Shape Analysis of the Corpus Callosum. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 700-708.	3.2	28
16	A diffusion-weighted imaging based diagnostic system for early detection of prostate cancer. Journal of Biomedical Science and Engineering, 2013, 06, 346-356.	0.4	28
17	Automatic Detection of 2D and 3D Lung Nodules in Chest Spiral CT Scans. International Journal of Biomedical Imaging, 2013, 2013, 1-11.	3.9	27
18	Kidney segmentation using graph cuts and pixel connectivity. Pattern Recognition Letters, 2013, 34, 1470-1475.	4.2	26

#	ARTICLE	IF	CITATIONS
19	Age-invariant face recognition based on deep features analysis. Signal, Image and Video Processing, 2020, 14, 1027-1034.	2.7	26
20	<l>In-Vitro</l> and <l>In-Vivo</l> Diagnostic Techniques for Prostate Cancer: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2747-2777.	1.1	24
21	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
22	Corpus callosum shape analysis with application to dyslexia. Translational Neuroscience, 2010, 1, 124-130.	1.4	22
23	Autism diagnostics by centerline-based shape analysis of the Corpus Callosum. , 2011, , .		20
24	Image-based detection of Corpus Callosum variability for more accurate discrimination between dyslexic and normal brains. , 2010, , .		19
25	3D shape analysis of the brain cortex with application to dyslexia. , 2011, , .		19
26	Automated early breast cancer detection and classification system. Signal, Image and Video Processing, 2021, 15, 1497-1505.	2.7	19
27	Cortical surface complexity in a population-based normative sample. Translational Neuroscience, 2014, 5, .	1.4	18
28	A New Framework for Performing Cardiac Strain Analysis from Cine MRI Imaging in Mice. Scientific Reports, 2020, 10, 7725.	3.3	18
29	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 14, 175-182.	1.3	18
30	Early Lung Cancer Detection using Deep Learning Optimization. International Journal of Online and Biomedical Engineering, 2020, 16, 82.	1.4	17
31	The Role of Structure MRI in Diagnosing Autism. Diagnostics, 2022, 12, 165.	2.6	14
32	The Role of Different Retinal Imaging Modalities in Predicting Progression of Diabetic Retinopathy: A Survey. Sensors, 2022, 22, 3490.	3.8	14
33	New automated Markovâ€Gibbs random field based framework for myocardial wall viability quantification on agent enhanced cardiac magnetic resonance images. International Journal of Cardiovascular Imaging, 2012, 28, 1683-1698.	1.5	13
34	Improving full-cardiac cycle strain estimation from tagged CMR by accurate modeling of 3D image appearance characteristics. , 2012, , .		13
35	Linear Wireless Sensor Networks Energy Minimization Using Optimal Placement Strategies of Nodes. Wireless Personal Communications, 2020, 114, 2841-2854.	2.7	13
36	The Role of Diffusion Tensor MR Imaging (DTI) of the Brain in Diagnosing Autism Spectrum Disorder: Promising Results. Sensors, 2021, 21, 8171.	3.8	13

#	ARTICLE	IF	CITATIONS
37	3D Graph cut with new edge weights for cerebral white matter segmentation. Pattern Recognition Letters, 2011, 32, 941-947.	4.2	12
38	A new shape-based framework for the left ventricle wall segmentation from cardiac first-pass perfusion mri. , 2013, , .		11
39	Novel Stochastic Framework for Accurate Segmentation of Prostate in Dynamic Contrast Enhanced MRI. Lecture Notes in Computer Science, 2010, , 121-130.	1.3	11
40	Autism Diagnostics by 3D Shape Analysis of the Corpus Callosum. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 315-335.	0.4	11
41	A novel image-based approach for early detection of prostate cancer. , 2012, , .		10
42	Accurate modeling of tagged CMR 3D image appearance characteristics to improve cardiac cycle strain estimation. , 2012, , .		10
43	Dyslexia Diagnostics by Centerline-Based Shape Analysis of the Corpus Callosum. , 2010, , .		9
44	3D shape analysis of the brain cortex with application to autism. , 2011, , .		9
45	Accurate segmentation framework for the left ventricle wall from cardiac cine MRI. , 2013, , .		9
46	A Novel Approach for Global Lung Registration Using 3D Markov-Gibbs Appearance Model. Lecture Notes in Computer Science, 2012, 15, 114-121.	1.3	9
47	Cerebral white matter segmentation from MRI using probabilistic graph cuts and geometric shape priors. , 2010, , .		8
48	Image-based detection of Corpus Callosum variability for more accurate discrimination between autistic and normal brains. , 2010, , .		8
49	Non-Invasive Image-Based Approach for Early Detection of Prostate Cancer. , 2011, , .		8
50	A new 3D automatic segmentation framework for accurate segmentation of prostate from DCE-MRI. , 2011, , .		8
51	A new validation approach for the growth rate measurement using elastic phantoms generated by state-of-the-art microfluidics technology. , 2010, , .		7
52	A new 3D automatic segmentation framework for accurate extraction of prostate from diffusion imaging. , 2011, , .		7
53	3D automatic approach for precise segmentation of the prostate from Diffusion-Weighted Magnetic Resonance Imaging. , 2011, , .		7
54	Non-rigid biomedical image registration using graph cuts with a novel data term. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
55	A novel 4D PDE-based approach for accurate assessment of myocardium function using cine cardiac magnetic resonance images. , 2014, , .		7
56	Intramyocardial strain estimation from cardiac cine MRI. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1299-1312.	2.8	7
57	Segmentation of Infant Brain Using Nonnegative Matrix Factorization. Applied Sciences (Switzerland), 2022, 12, 5377.	2.5	7
58	A new framework for automated identification of pathological tissues in contrast enhanced cardiac magnetic resonance images. , 2011, , .		6
59	An integrated geometrical and stochastic approach for accurate infant brain extraction. , 2014, , .		6
60	Segmentation of infant brain MR images based on adaptive shape prior and higher-order MGRF. , 2015, , .		6
61	FPGA-based reservoir computing system for ECG denoising. Microprocessors and Microsystems, 2022, 91, 104549.	2.8	6
62	FPGA-based neuro-architecture intrusion detection system. , 2008, , .		5
63	An Automated CAD System for Accurate Grading of Uveitis Using Optical Coherence Tomography Images. Sensors, 2021, 21, 5457.	3.8	5
64	Cerebral White Matter Segmentation using Probabilistic Graph Cut Algorithm. , 2011, , 41-67.		5
65	Ensemble deep learning system for early breast cancer detection. Evolutionary Intelligence, 2023, 16, 1045-1054.	3.6	5
66	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
67	Modified Akaike information criterion for estimating the number of components in a probability mixture model. , 2012, , .		4
68	Validating a new methodology for strain estimation from cardiac cine MRI. , 2013, , .		4
69	Antenna array thinning for interference mitigation in multi-directional antenna subset modulation. Physical Communication, 2018, 26, 31-39.	2.1	4
70	Fast, Accurate Unsupervised Segmentation of 3D Magnetic Resonance Angiography. , 2011, , 411-432.		4
71	Optimization of deep learning features for age-invariant face recognition. International Journal of Electrical and Computer Engineering, 2020, 10, 1833.	0.7	4
72	A new framework for automated segmentation of left ventricle wall from contrast enhanced cardiac magnetic resonance images. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
73	A statistical framework for the classification of infant DT images. , 2014, , .		3
74	Segmentation of pathological lungs from CT chest images. , 2015, , .		3
75	Broadcasting Multi-beams Antenna Subset Modulation for Secure Millimeter-Wave Wireless Communications. Wireless Personal Communications, 2017, 97, 3503-3517.	2.7	3
76	MAPa€Based Framework for Segmentation of MR Brain Images Based on Visual Appearance and Prior Shape. , 2013, , .		3
77	ECG Denoising using a Single-Node Dynamic Reservoir Computing Architecture. (Dept. E). MEJ - Mansoura Engineering Journal, 2021, 46, 47-52.	0.1	3
78	Computer aided detection system for early cancerous pulmonary nodules by optimizing deep learning features. , 2019, , .		1
79	Deep segmentation of the liver and the hepatic tumors from abdomen tomography images. International Journal of Electrical and Computer Engineering, 2022, 12, 303.	0.7	1
80	Deep Joint Segmentation of Liver and Cancerous Nodules From Ct Images. , 2020, , .		1
81	Computational methods for identifying left ventricle heart pathologies. , 2021, , 59-93.		0
82	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
83	Analysis of 3D Corpus Callosum Images in the Brains of Autistic Individuals. , 0, , 1529-1554.		0