Ahmed Soliman

List of Publications by Year
in descending order

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108	1,959	361045	329751
papers	citations	20	37
		h-index	g-index

113	113	113	1882
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Models and methods for analyzing DCEâ€MRI: A review. Medical Physics, 2014, 41, 124301.	1.6	225
2	Computer-Aided Diagnosis Systems for Lung Cancer: Challenges and Methodologies. International Journal of Biomedical Imaging, 2013, 2013, 1-46.	3.0	158
3	Focal cortical dysplasias in autism spectrum disorders. Acta Neuropathologica Communications, 2013, 1, 67.	2.4	117
4	Precise Segmentation of 3-D Magnetic Resonance Angiography. IEEE Transactions on Biomedical Engineering, 2012, 59, 2019-2029.	2.5	96
5	Accurate Lungs Segmentation on CT Chest Images by Adaptive Appearance-Guided Shape Modeling. IEEE Transactions on Medical Imaging, 2017, 36, 263-276.	5.4	80
6	A Generalized Deep Learning-Based Diagnostic System for Early Diagnosis of Various Types of Pulmonary Nodules. Technology in Cancer Research and Treatment, 2018, 17, 153303381879880.	0.8	54
7	A Personalized Autism Diagnosis CAD System Using a Fusion of Structural MRI and Resting-State Functional MRI Data. Frontiers in Psychiatry, 2019, 10, 392.	1.3	50
8	3D kidney segmentation from abdominal diffusion MRI using an appearance-guided deformable boundary. PLoS ONE, 2018, 13, e0200082.	1.1	39
9	Computer-Aided Diagnostic System for Early Detection of Acute Renal Transplant Rejection Using Diffusion-Weighted MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 539-552.	2.5	39
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.	3.9	36
11	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. Medical Physics, 2013, 40, 092302.	1.6	31
12	Magnetic Resonance Imaging Findings for Dyslexia: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2778-2805.	0.5	30
13	3D Kidney Segmentation from Abdominal Images Using Spatial-Appearance Models. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	30
14	A Novel Computer-Aided Diagnostic System for Early Detection of Diabetic Retinopathy Using 3D-OCT Higher-Order Spatial Appearance Model. Diagnostics, 2022, 12, 461.	1.3	30
15	A Comprehensive Framework for Differentiating Autism Spectrum Disorder From Neurotypicals by Fusing Structural MRI and Resting State Functional MRI. Seminars in Pediatric Neurology, 2020, 34, 100805.	1.0	29
16	Kidney segmentation using graph cuts and pixel connectivity. Pattern Recognition Letters, 2013, 34, 1470-1475.	2.6	26
17	A Novel NMF Guided Level-set for DWI Prostate Segmentation. Journal of Computer Science and Systems Biology, 2014, 07, .	0.0	25
18	A novel Gaussian Scale Space-based joint MGRF framework for precise lung segmentation. , 2012, , .		24

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19	<I>In-Vitro</I> and <I>In-Vivo</I> Diagnostic Techniques for Prostate Cancer: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2747-2777.	0.5	24
20	A level set-based framework for 3D kidney segmentation from diffusion MR images. , 2015, , .		24
21	A Novel Autoencoder-Based Diagnostic System for Early Assessment of Lung Cancer. , 2018, , .		24
22	A novel computer-aided diagnostic system for accurate detection and grading of liver tumors. Scientific Reports, 2021, 11, 13148.	1.6	24
23	A new framework for incorporating appearance and shape features of lung nodules for precise diagnosis of lung cancer. , 2017, , .		23
24	A multiparametric MRI-based CAD system for accurate diagnosis of bladder cancer staging. Computerized Medical Imaging and Graphics, 2021, 90, 101911.	3.5	22
25	A Comprehensive Computer-Assisted Diagnosis System for Early Assessment of Renal Cancer Tumors. Sensors, 2021, 21, 4928.	2.1	20
26	A novel framework for automatic segmentation of kidney from DW-MRI. , 2015, , .		19
27	Segmentation of lung region based on using parallel implementation of joint MGRF: Validation on 3D realistic lung phantoms. , 2013, , .		17
28	Accurate Segmentation of Cerebrovasculature From TOF-MRA Images Using Appearance Descriptors. IEEE Access, 2020, 8, 96139-96149.	2.6	17
29	Role of Optical Coherence Tomography Imaging in Predicting Progression of Age-Related Macular Disease: A Survey. Diagnostics, 2021, 11, 2313.	1.3	17
30	A novel MRA framework based on integrated global and local analysis for accurate segmentation of the cerebral vascular system. , 2018, , .		15
31	A novel computer-aided diagnosis system for the early detection of hypertension based on cerebrovascular alterations. NeuroImage: Clinical, 2020, 25, 102107.	1.4	15
32	Computer Aided Autism Diagnosis Using Diffusion Tensor Imaging. IEEE Access, 2020, 8, 191298-191308.	2.6	15
33	Early assessment of lung function in coronavirus patients using invariant markers from chest X-rays images. Scientific Reports, 2021, 11, 12095.	1.6	15
34	Impact of stress and hypertension on the cerebrovasculature. Frontiers in Bioscience, 2021, 26, 1643-1652.	0.8	15
35	Early assessment of malignant lung nodules based on the spatial analysis of detected lung nodules. , 2012, , .		14
36	Vegetation Cover Estimation Using Convolutional Neural Networks. IEEE Access, 2019, 7, 132563-132576.	2.6	14

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37	A Promising Non-invasive CAD System forÂKidney Function Assessment. Lecture Notes in Computer Science, 2016, , 613-621.	1.0	14
38	Texture and shape analysis of diffusionâ€weighted imaging for thyroid nodules classification using machine learning. Medical Physics, 2022, 49, 988-999.	1.6	14
39	The Role of Different Retinal Imaging Modalities in Predicting Progression of Diabetic Retinopathy: A Survey. Sensors, 2022, 22, 3490.	2.1	14
40	Image-based CAD system for accurate identification of lung injury. , 2016, , .		13
41	Radiomic-Based Framework for Early Diagnosis of Lung Cancer. , 2019, , .		13
42	A Deep Learning-Based Approach for Accurate Segmentation of Bladder Wall using MR Images. , 2019, , .		13
43	The Role of Diffusion Tensor MR Imaging (DTI) of the Brain in Diagnosing Autism Spectrum Disorder: Promising Results. Sensors, 2021, 21, 8171.	2.1	13
44	A new non-invasive approach for early classification of renal rejection types using diffusion-weighted MRI. , 2016, , .		12
45	3D diffusion MRI-based CAD system for early diagnosis of acute renal rejection. , 2016, , .		12
46	A Novel Framework for Early Detection of Hypertension using Magnetic Resonance Angiography. Scientific Reports, 2019, 9, 11105.	1.6	12
47	Novel stochastic framework for automatic segmentation of human thigh MRI volumes and its applications in spinal cord injured individuals. PLoS ONE, 2019, 14, e0216487.	1.1	12
48	Kidney segmentation from CT images using a 3D NMF-guided active contour model. , 2016, , .		11
49	A 3D CNN with a Learnable Adaptive Shape Prior for Accurate Segmentation of Bladder Wall Using MR Images. , 2020, , .		11
50	A novel 3D segmentation approach for extracting retinal layers from optical coherence tomography images. Medical Physics, 2021, 48, 1584-1595.	1.6	11
51	Precise Segmentation of COVID-19 Infected Lung from CT Images Based on Adaptive First-Order Appearance Model with Morphological/Anatomical Constraints. Sensors, 2021, 21, 5482.	2.1	11
52	Segmenting Kidney DCE-MRI Using 1st-Order Shape and 5th-Order Appearance Priors. Lecture Notes in Computer Science, 2015, , 77-84.	1.0	11
53	An ISO-surfaces based local deformation handling framework of lung tissues. , 2016, , .		10
54	Detection of lung injury using 4D-CT chest images. , 2016, , .		10

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55	A novel automatic segmentation of healthy and diseased retinal layers from OCT scans. , 2016, , .		10
56	A random forest-based framework for 3D kidney segmentation from dynamic contrast-enhanced CT images. , 2016, , .		10
57	A fast stochastic framework for automatic MR brain images segmentation. PLoS ONE, 2017, 12, e0187391.	1.1	10
58	A CNN-Based Framework for Bladder Wall Segmentation Using MRI. , 2019, , .		10
59	Identifying brain areas correlated with ADOS raw scores by studying altered dynamic functional connectivity patterns. Medical Image Analysis, 2021, 68, 101899.	7.0	10
60	Performance evaluation of an automatic MGRF-based lung segmentation approach. AIP Conference Proceedings, 2013, , .	0.3	9
61	Accurate segmentation framework for the left ventricle wall from cardiac cine MRI. , 2013, , .		9
62	A novel technology to integrate imaging and clinical markers for non-invasive diagnosis of lung cancer. Scientific Reports, 2021, 11, 4597.	1.6	9
63	A Novel Approach for Global Lung Registration Using 3D Markov-Gibbs Appearance Model. Lecture Notes in Computer Science, 2012, 15, 114-121.	1.0	9
64	The Role of 3D CT Imaging in the Accurate Diagnosis of Lung Function in Coronavirus Patients. Diagnostics, 2022, 12, 696.	1.3	9
65	Dynamic MRI-based computer aided diagnostic systems for early detection of kidney transplant rejection: A survey. , 2013, , .		8
66	Detection of white matter abnormalities in MR brain images for diagnosis of autism in children. , 2016, , .		8
67	Using 3-D CNNs and Local Blood Flow Information to Segment Cerebral Vasculature. , 2018, , .		8
68	Towards Accurate Personalized Autism Diagnosis Using Different Imaging Modalities: sMRI, fMRI, and DTI. , 2018, , .		8
69	On The Integration of CT-Derived Features for Accurate Detection of Lung Cancer. , 2018, , .		8
70	A Novel CNN Segmentation Framework Based on Using New Shape and Appearance Features. , 2018, , .		8
71	A novel 4D PDE-based approach for accurate assessment of myocardium function using cine cardiac magnetic resonance images. , 2014, , .		7
72	A generalized MRI-based CAD system for functional assessment of renal transplant. , 2017, , .		7

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73	A comprehensive framework for early assessment of lung injury. , 2017, , .		7
74	Autism Spectrum Disorder Diagnosis framework using Diffusion Tensor Imaging. , 2019, , .		7
75	Segmentation of Infant Brain Using Nonnegative Matrix Factorization. Applied Sciences (Switzerland), 2022, 12, 5377.	1.3	7
76	An integrated geometrical and stochastic approach for accurate infant brain extraction. , 2014, , .		6
77	Segmentation of infant brain MR images based on adaptive shape prior and higher-order MGRF. , 2015, , .		6
78	A Novel Computer-Aided Diagnostic System for Early Assessment of Hepatocellular Carcinoma. , 2021, , .		6
79	Retinal Layers OCT Scans 3-D Segmentation. , 2019, , .		5
80	A Novel CT-Based Descriptors for Precise Diagnosis of Pulmonary Nodules. , 2019, , .		5
81	Computer-Assisted Image Processing System for Early Assessment of Lung Nodule Malignancy. Cancers, 2022, 14, 1117.	1.7	5
82	Atlas-based approach for the segmentation of infant DTI MR brain images. , 2014, , .		4
83	A Novel MRA-Based Framework For Detecting Correlation Between Cerebrovascular Changes and Mean Arterial Pressure. , 2018, , .		4
84	A New Computer-Aided Diagnostic (Cad) System For Precise Identification Of Renal Tumors. , 2021, , .		4
85	A statistical framework for the classification of infant DT images. , 2014, , .		3
86	Segmentationof pathological lungs from CT chest images. , 2015, , .		3
87	Hypertension and Correlation to Cerebrovascular Change: A Brief Overview. , 2018, , 345-364.		3
88	MAPâ€“Based Framework for Segmentation of MR Brain Images Based on Visual Appearance and Prior Shape. , 2013, , .		3
89	A Novel Automatic Segmentation Method to Quantify the Effects of Spinal Cord Injury on Human Thigh Muscles and Adipose Tissue. Lecture Notes in Computer Science, 2017, , 703-711.	1.0	2
90	An Innovative 3D Adaptive Patient-Related Atlas for Automatic Segmentation of Retina Layers from Oct Images. , 2018, , .		2

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91	A New System for Lung Cancer Diagnosis based on the Integration of Global and Local CT Features. , 2019, , .		2
92	Segmentation of Abdominal Aortic Aneurysm (AAA) Based on Topology Prior Model. Communications in Computer and Information Science, 2017, , 219-228.	0.4	2
93	Diabetic Retinopathy Diagnostic CAD System Using 3D-Oct Higher Order Spatial Appearance Model. , 2022, , .		2
94	Studying the Role of Cerebrovascular Changes in Different Compartments in Human Brains in Hypertension Prediction. Applied Sciences (Switzerland), 2022, 12, 4291.	1.3	2
95	Lung Cancer Diagnosis System Based on Volatile Organic Compounds (VOCs) Profile Measured in Exhaled Breath. Applied Sciences (Switzerland), 2022, 12, 7165.	1.3	2
96	A CAD System for the Early Prediction of Hypertension based on Changes in Cerebral Vasculature. , 2019, , .		1
97	Analysis Of The Importance Of Systolic Blood Pressure Versus Diastolic Blood Pressure In Diagnosing Hypertension: MRA Study. , 2020, , .		1
98	A Comprehensive Framework For Accurate Classification of Pulmonary Nodules. , 2020, , .		1
99	Segmentation of retinal layers from OCT scans. , 2020, , 109-132.		1
100	Identifying brain pathological abnormalities of autism for classification using diffusion tensor imaging. , 2021, , 361-376.		1
101	A Novel Framework for Accurate and Non-Invasive Pulmonary Nodule Diagnosis by Integrating Texture and Contour Descriptors. , 2021, , .		1
102	A Novel MRA-Based Framework for the Detection of Cerebrovascular Changes and Correlation to Blood Pressure. , 2021, , 225-256.		0
103	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
104	Detection of Calcification from Abdominal Aortic Aneurysm. , 2018, , 173-196.		0
105	Lung Nodule Classification Basedon the Integration of a Higher-Order Markov-Gibbs Random Field Appearance Model and Geometric Features. , 2019, , 203-224.		0
106	Computational analysis techniques: a case study on fMRI for autism spectrum disorder. , 0, , .		0
107	A noninvasive image-based approach toward an early diagnosis of autism. , 0, , .		0
108	Analysis of 3D Corpus Callosum Images in the Brains of Autistic Individuals. , 0, , 1529-1554.		0