

Fahmi Khalifa

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

2,446
citations

236612

25
h-index

288905

40
g-index

137
all docs

137
docs citations

137
times ranked

2009
citing authors

#	ARTICLE	IF	CITATIONS
1	Models and methods for analyzing DCEâ€MRI: A review. <i>Medical Physics</i> , 2014, 41, 124301.	1.6	225
2	Focal cortical dysplasias in autism spectrum disorders. <i>Acta Neuropathologica Communications</i> , 2013, 1, 67.	2.4	117
3	Precise Segmentation of 3-D Magnetic Resonance Angiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2019-2029.	2.5	96
4	Accurate Lungs Segmentation on CT Chest Images by Adaptive Appearance-Guided Shape Modeling. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 263-276.	5.4	80
5	Accurate Automatic Analysis of Cardiac Cine Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 445-455.	2.5	72
6	Dynamic Contrast-Enhanced MRI-Based Early Detection of Acute Renal Transplant Rejection. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1910-1927.	5.4	59
7	A Novel CNN-Based CAD System for Early Assessment of Transplanted Kidney Dysfunction. <i>Scientific Reports</i> , 2019, 9, 5948.	1.6	54
8	A comprehensive nonâ€invasive framework for automated evaluation of acute renal transplant rejection using DCEâ€MRI. <i>NMR in Biomedicine</i> , 2013, 26, 1460-1470.	1.6	52
9	A New Image Encryption Scheme Based on Hybrid Chaotic Maps. <i>Complexity</i> , 2020, 2020, 1-23.	0.9	51
10	A Chaotic-Based Encryption/Decryption Framework for Secure Multimedia Communications. <i>Entropy</i> , 2020, 22, 1253.	1.1	48
11	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. <i>Lecture Notes in Computer Science</i> , 2011, 22, 772-783.	1.0	45
12	A deep learning-based approach for automatic segmentation and quantification of the left ventricle from cardiac cine MR images. <i>Computerized Medical Imaging and Graphics</i> , 2020, 81, 101717.	3.5	41
13	3D kidney segmentation from abdominal diffusion MRI using an appearance-guided deformable boundary. <i>PLoS ONE</i> , 2018, 13, e0200082.	1.1	39
14	Computer-Aided Diagnostic System for Early Detection of Acute Renal Transplant Rejection Using Diffusion-Weighted MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 539-552.	2.5	39
15	A comprehensive non-invasive framework for diagnosing prostate cancer. <i>Computers in Biology and Medicine</i> , 2017, 81, 148-158.	3.9	37
16	Infant Brain Extraction in T1-Weighted MR Images Using BET and Refinement Using LCDG and MGRF Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 925-935.	3.9	36
17	Towards non-invasive diagnostic techniques for early detection of acute renal transplant rejection: A review. <i>Egyptian Journal of Radiology and Nuclear Medicine</i> , 2017, 48, 257-269.	0.3	36
18	Early diabetic retinopathy diagnosis based on local retinal blood vessel analysis in optical coherence tomography angiography (OCTA) images. <i>Medical Physics</i> , 2018, 45, 4582-4599.	1.6	35

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19	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.	1.0	35
20	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. Medical Physics, 2013, 40, 092302.	1.6	31
21	State-of-the-Art Medical Image Registration Methodologies: A Survey. , 2011, , 235-280.		30
22	3D Kidney Segmentation from Abdominal Images Using Spatial-Appearance Models. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	30
23	Non-invasive Image-Based Approach for Early Detection of Acute Renal Rejection. Lecture Notes in Computer Science, 2010, 13, 10-18.	1.0	30
24	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
25	A novel image encryption/decryption scheme based on integrating multiple chaotic maps. AIP Advances, 2020, 10, .	0.6	29
26	Shape-Appearance Guided Level-Set Deformable Model for Image Segmentation. , 2010, , .		28
27	A diffusion-weighted imaging based diagnostic system for early detection of prostate cancer. Journal of Biomedical Science and Engineering, 2013, 06, 346-356.	0.2	28
28	Precise higher-order reflectivity and morphology models for early diagnosis of diabetic retinopathy using OCT images. Scientific Reports, 2021, 11, 4730.	1.6	27
29	Kidney segmentation using graph cuts and pixel connectivity. Pattern Recognition Letters, 2013, 34, 1470-1475.	2.6	26
30	Computer-aided diagnostic tool for early detection of prostate cancer. , 2016, , .		26
31	A Novel NMF Guided Level-set for DWI Prostate Segmentation. Journal of Computer Science and Systems Biology, 2014, 07, .	0.0	25
32	<>In-Vitro</> and <>In-Vivo</> Diagnostic Techniques for Prostate Cancer: A Review. Journal of Biomedical Nanotechnology, 2014, 10, 2747-2777.	0.5	24
33	A level set-based framework for 3D kidney segmentation from diffusion MR images. , 2015, , .		24
34	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.	1.8	23
35	A multiparametric MRI-based CAD system for accurate diagnosis of bladder cancer staging. Computerized Medical Imaging and Graphics, 2021, 90, 101911.	3.5	22
36	3D shape analysis of the brain cortex with application to dyslexia. , 2011, , .		19

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37	A novel framework for automatic segmentation of kidney from DW-MRI. , 2015, , .		19
38	Cortical surface complexity in a population-based normative sample. Translational Neuroscience, 2014, 5, .	0.7	18
39	A New Framework for Performing Cardiac Strain Analysis from Cine MRI Imaging in Mice. Scientific Reports, 2020, 10, 7725.	1.6	18
40	Novel MRI-Based CAD System for Early Detection of Thyroid Cancer Using Multi-Input CNN. Sensors, 2021, 21, 3878.	2.1	18
41	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 14, 175-182.	1.0	18
42	A Robust Chaos-Based Technique for Medical Image Encryption. IEEE Access, 2022, 10, 244-257.	2.6	18
43	A new deformable model-based segmentation approach for accurate extraction of the kidney from abdominal CT images. , 2011, , .		17
44	Segmentation of lung region based on using parallel implementation of joint MGRF: Validation on 3D realistic lung phantoms. , 2013, , .		17
45	Athlete-Customized Injury Prediction using Training Load Statistical Records and Machine Learning. , 2018, , .		17
46	Automatic analysis of left ventricle wall thickness using short-axis cine CMR images. , 2011, , .		16
47	A new NMF-autoencoder based CAD system for early diagnosis of prostate cancer. , 2016, , .		15
48	A Novel Image-Based Approach for Early Detection of Prostate Cancer Using DCE-MRI. , 2014, , 55-82.		15
49	A Promising Non-invasive CAD System for Kidney Function Assessment. Lecture Notes in Computer Science, 2016, , 613-621.	1.0	14
50	Texture and shape analysis of diffusion-weighted imaging for thyroid nodules classification using machine learning. Medical Physics, 2022, 49, 988-999.	1.6	14
51	The Role of Different Retinal Imaging Modalities in Predicting Progression of Diabetic Retinopathy: A Survey. Sensors, 2022, 22, 3490.	2.1	14
52	Improving full-cardiac cycle strain estimation from tagged CMR by accurate modeling of 3D image appearance characteristics. , 2012, , .		13
53	Image-based CAD system for accurate identification of lung injury. , 2016, , .		13
54	A Deep Learning-Based Approach for Accurate Segmentation of Bladder Wall using MR Images. , 2019, , .		13

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55	A novel approach for accurate estimation of left ventricle global indexes from short-axis cine MRI. , 2011, , .		12
56	Fully automated framework for the analysis of myocardial first-pass perfusion MR images. Medical Physics, 2014, 41, 102305.	1.6	12
57	A new non-invasive approach for early classification of renal rejection types using diffusion-weighted MRI. , 2016, , .		12
58	3D diffusion MRI-based CAD system for early diagnosis of acute renal rejection. , 2016, , .		12
59	Deformable model guided by stochastic speed with application in cine images segmentation. , 2010, , .		11
60	A new nonrigid registration approach for motion correction of cardiac first-pass perfusion MRI. , 2012, , .		11
61	A new shape-based framework for the left ventricle wall segmentation from cardiac first-pass perfusion mri. , 2013, , .		11
62	Kidney segmentation from CT images using a 3D NMF-guided active contour model. , 2016, , .		11
63	A 3D CNN with a Learnable Adaptive Shape Prior for Accurate Segmentation of Bladder Wall Using MR Images. , 2020, , .		11
64	Thyroid Cancer Computer-Aided Diagnosis System using MRI-Based Multi-Input CNN Model. , 2021, , .		11
65	A Deep Learning Pipeline for Grade Groups Classification Using Digitized Prostate Biopsy Specimens. Sensors, 2021, 21, 6708.	2.1	11
66	Multi-Classification of Chest X-rays for COVID-19 Diagnosis Using Deep Learning Algorithms. Applied Sciences (Switzerland), 2022, 12, 2080.	1.3	11
67	A novel image-based approach for early detection of prostate cancer. , 2012, , .		10
68	Accurate modeling of tagged CMR 3D image appearance characteristics to improve cardiac cycle strain estimation. , 2012, , .		10
69	A new nonrigid registration framework for improved visualization of transmural perfusion gradients on cardiac first-pass perfusion MRI. , 2012, , .		10
70	An ISO-surfaces based local deformation handling framework of lung tissues. , 2016, , .		10
71	Detection of lung injury using 4D-CT chest images. , 2016, , .		10
72	A random forest-based framework for 3D kidney segmentation from dynamic contrast-enhanced CT images. , 2016, , .		10

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73	A CNN-Based Framework for Bladder Wall Segmentation Using MRI. , 2019, , .		10
74	Accurate segmentation of weld defects with horizontal shapes. NDT and E International, 2022, 126, 102599.	1.7	10
75	Multiresolutional ensemble PartialNet for Alzheimer detection using magnetic resonance imaging data. International Journal of Intelligent Systems, 2022, 37, 6613-6630.	3.3	10
76	3D shape analysis of the brain cortex with application to autism. , 2011, , .		9
77	Performance evaluation of an automatic MGRF-based lung segmentation approach. AIP Conference Proceedings, 2013, , .	0.3	9
78	Accurate segmentation framework for the left ventricle wall from cardiac cine MRI. , 2013, , .		9
79	Bladder and bowel responses to lumbosacral epidural stimulation in uninjured and transected anesthetized rats. Scientific Reports, 2021, 11, 3268.	1.6	9
80	Shape-Based Detection of Cortex Variability for More Accurate Discrimination Between Autistic and Normal Brains. , 2011, , 161-185.		9
81	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
82	Non-Invasive Image-Based Approach for Early Detection of Prostate Cancer. , 2011, , .		8
83	A new 3D automatic segmentation framework for accurate segmentation of prostate from DCE-MRI. , 2011, , .		8
84	Dynamic MRI-based computer aided diagnostic systems for early detection of kidney transplant rejection: A survey. , 2013, , .		8
85	Detection of white matter abnormalities in MR brain images for diagnosis of autism in children. , 2016, , .		8
86	Image-Based Computer-Aided Diagnostic System for Early Diagnosis of Prostate Cancer. Lecture Notes in Computer Science, 2016, , 610-618.	1.0	8
87	Automated Diagnosis of Optical Coherence Tomography Angiography (OCTA) Based on Machine Learning Techniques. Sensors, 2022, 22, 2342.	2.1	8
88	A new validation approach for the growth rate measurement using elastic phantoms generated by state-of-the-art microfluidics technology. , 2010, , .		7
89	A new 3D automatic segmentation framework for accurate extraction of prostate from diffusion imaging. , 2011, , .		7
90	3D automatic approach for precise segmentation of the prostate from Diffusion-Weighted Magnetic Resonance Imaging. , 2011, , .		7

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91	Non-rigid biomedical image registration using graph cuts with a novel data term. , 2012, , .		7
92	A novel 4D PDE-based approach for accurate assessment of myocardium function using cine cardiac magnetic resonance images. , 2014, , .		7
93	A generalized MRI-based CAD system for functional assessment of renal transplant. , 2017, , .		7
94	A comprehensive framework for early assessment of lung injury. , 2017, , .		7
95	A Robust and Hybrid Cryptosystem for Identity Authentication. Information (Switzerland), 2021, 12, 104.	1.7	7
96	A New Image-Based Framework for Analyzing Cine Images. , 2011, , 69-98.		7
97	- Computer-Aided Assessment and Stenting of Tracheal Stenosis. , 2016, , 382-407.		7
98	An integrated geometrical and stochastic approach for accurate infant brain extraction. , 2014, , .		6
99	Segmentation of infant brain MR images based on adaptive shape prior and higher-order MGRF. , 2015, , .		6
100	A Cad System For Accurate Diagnosis Of Bladder Cancer Staging Using A Multiparametric MRI. , 2021, , .		6
101	An Automated CAD System for Accurate Grading of Uveitis Using Optical Coherence Tomography Images. Sensors, 2021, 21, 5457.	2.1	5
102	A pyramidal deep learning pipeline for kidney whole-slide histology images classification. Scientific Reports, 2021, 11, 20189.	1.6	5
103	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
104	Atlas-based approach for the segmentation of infant DTI MR brain images. , 2014, , .		4
105	MRI Markers for Early Assessment of Bladder Cancer: A Review. , 2018, , .		4
106	A Novel CAD System for Detecting Acute Rejection of Renal Allografts Based on Integrating Imaging-markers and Laboratory Biomarkers. , 2018, , .		4
107	Automatic Segmentation and Functional Assessment of the Left Ventricle using U-net Fully Convolutional Network. , 2019, , .		4
108	A Novel Deep Learning Approach for Left Ventricle Automatic Segmentation in Cardiac Cine MR. , 2019, , .		4

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109	Comparative Analysis of Resources Utilization in Some Open-Source Videoconferencing Applications based on WebRTC. , 2021, , .		4
110	Segmenting welding flaws of non-horizontal shape. AEJ - Alexandria Engineering Journal, 2021, 60, 4057-4065.	3.4	4
111	Thoracolumbar epidural stimulation effects on bladder and bowel function in uninjured and chronic transected anesthetized rats. Scientific Reports, 2022, 12, 2137.	1.6	4
112	A statistical framework for the classification of infant DT images. , 2014, , .		3
113	Segmentation of pathological lungs from CT chest images. , 2015, , .		3
114	Artificial Intelligence Based Framework to Quantify the Cardiomyocyte Structural Integrity in Heart Slices. Cardiovascular Engineering and Technology, 2022, 13, 170-180.	0.7	3
115	MAPa€Based Framework for Segmentation of MR Brain Images Based on Visual Appearance and Prior Shape. , 2013, , .		3
116	Survey of watershed modeling and sensor data fusion. , 2009, , .		2
117	A CNN-Based Framework for Automatic Vitreous Segmentation from OCT Images. , 2019, , .		2
118	Ensemble Learning of Blood Metabolic Biomarkers: A Novel CAD System of Heart Failure. , 2019, , .		2
119	Computer-Aided Diagnosis of Acute Myocardial Infarction using Time-Dependent Plasma Metabolites. , 2019, , .		2
120	Diabetic Retinopathy Diagnostic CAD System Using 3D-Oct Higher Order Spatial Appearance Model. , 2022, , .		2
121	Automated CAD System for Intermediate Uveitis Grading Using Optical Coherence Tomography Images. , 2022, , .		2
122	SIR-based uplink admission scheme for a two-tier CDMA system under mobility incorporation. , 2007, , .		1
123	A Novel Fully Automated CAD System for Left Ventricle Volume Estimation. , 2018, , .		1
124	Predictive Biomarkers for Neoadjuvant Chemotherapy Response in Muscle-Invasive Bladder Cancer: A survey. , 2018, , .		1
125	Conversion of Videoconference Speech into Text based on WebRTC and Web Speech APIs. , 2021, , .		1
126	A Hybrid Automated Intelligent COVID-19 Classification System Based on Neutrosophic Logic and Machine Learning Techniques Using Chest X-Ray Images. Studies in Systems, Decision and Control, 2022, , 119-137.	0.8	1

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127	A Novel Fully Automated CAD System for Left Ventricle Volume Estimation. , 2018, , .		0
128	Predictive Biomarkers for Neoadjuvant Chemotherapy Response in Muscle-Invasive Bladder Cancer: A survey. , 2018, , .		0
129	Left ventricle segmentation for cine MR using deep learning. , 2021, , 37-57.		0
130	A DCE-MRI-Based Noninvasive CAD System for Prostate Cancer Diagnosis. , 2018, , 189-217.		0
131	Classification of Multiple Sclerosis Disease using Cumulative Histogram. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	0
132	Epidural Stimulation Targeting Lower Urinary Tract Function in Spinally Intact and Transected Urethane-Anesthetized Rats. FASEB Journal, 2020, 34, 1-1.	0.2	0