

Fahmi Khalifa

List of Publications by Year in descending order

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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	A Hybrid Automated Intelligent COVID-19 Classification System Based on Neutrosophic Logic and Machine Learning Techniques Using Chest X-Ray Images. <i>Studies in Systems, Decision and Control</i> , 2022, , 119-137.	0.8	1
2	Artificial Intelligence Based Framework to Quantify the Cardiomyocyte Structural Integrity in Heart Slices. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 170-180.	0.7	3
3	A Robust Chaos-Based Technique for Medical Image Encryption. <i>IEEE Access</i> , 2022, 10, 244-257.	2.6	18
4	Accurate segmentation of weld defects with horizontal shapes. <i>NDT and E International</i> , 2022, 126, 102599.	1.7	10
5	Thoracolumbar epidural stimulation effects on bladder and bowel function in uninjured and chronic transected anesthetized rats. <i>Scientific Reports</i> , 2022, 12, 2137.	1.6	4
6	A Novel Computer-Aided Diagnostic System for Early Detection of Diabetic Retinopathy Using 3D-OCT Higher-Order Spatial Appearance Model. <i>Diagnostics</i> , 2022, 12, 461.	1.3	30
7	Multiresolutional ensemble PartialNet for Alzheimer detection using magnetic resonance imaging data. <i>International Journal of Intelligent Systems</i> , 2022, 37, 6613-6630.	3.3	10
8	Multi-Classification of Chest X-rays for COVID-19 Diagnosis Using Deep Learning Algorithms. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2080.	1.3	11
9	Automated Diagnosis of Optical Coherence Tomography Angiography (OCTA) Based on Machine Learning Techniques. <i>Sensors</i> , 2022, 22, 2342.	2.1	8
10	Texture and shape analysis of diffusion-weighted imaging for thyroid nodules classification using machine learning. <i>Medical Physics</i> , 2022, 49, 988-999.	1.6	14
11	Diabetic Retinopathy Diagnostic CAD System Using 3D-Oct Higher Order Spatial Appearance Model. , 2022, , .		2
12	Automated CAD System for Intermediate Uveitis Grading Using Optical Coherence Tomography Images. , 2022, , .		2
13	The Role of Different Retinal Imaging Modalities in Predicting Progression of Diabetic Retinopathy: A Survey. <i>Sensors</i> , 2022, 22, 3490.	2.1	14
14	Bladder and bowel responses to lumbosacral epidural stimulation in uninjured and transected anesthetized rats. <i>Scientific Reports</i> , 2021, 11, 3268.	1.6	9
15	Precise higher-order reflectivity and morphology models for early diagnosis of diabetic retinopathy using OCT images. <i>Scientific Reports</i> , 2021, 11, 4730.	1.6	27
16	A Robust and Hybrid Cryptosystem for Identity Authentication. <i>Information (Switzerland)</i> , 2021, 12, 104.	1.7	7
17	Thyroid Cancer Computer-Aided Diagnosis System using MRI-Based Multi-Input CNN Model. , 2021, , .		11
18	A Cad System For Accurate Diagnosis Of Bladder Cancer Staging Using A Multiparametric MRI. , 2021, , .		6

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19	Novel MRI-Based CAD System for Early Detection of Thyroid Cancer Using Multi-Input CNN. Sensors, 2021, 21, 3878.	2.1	18
20	A multiparametric MRI-based CAD system for accurate diagnosis of bladder cancer staging. Computerized Medical Imaging and Graphics, 2021, 90, 101911.	3.5	22
21	Comparative Analysis of Resources Utilization in Some Open-Source Videoconferencing Applications based on WebRTC. , 2021, , .		4
22	Conversion of Videoconference Speech into Text based on WebRTC and Web Speech APIs. , 2021, , .		1
23	An Automated CAD System for Accurate Grading of Uveitis Using Optical Coherence Tomography Images. Sensors, 2021, 21, 5457.	2.1	5
24	Segmenting welding flaws of non-horizontal shape. AEJ - Alexandria Engineering Journal, 2021, 60, 4057-4065.	3.4	4
25	Left ventricle segmentation for cine MR using deep learning. , 2021, , 37-57.		0
26	A Deep Learning Pipeline for Grade Groups Classification Using Digitized Prostate Biopsy Specimens. Sensors, 2021, 21, 6708.	2.1	11
27	A pyramidal deep learning pipeline for kidney whole-slide histology images classification. Scientific Reports, 2021, 11, 20189.	1.6	5
28	A Chaotic-Based Encryption/Decryption Framework for Secure Multimedia Communications. Entropy, 2020, 22, 1253.	1.1	48
29	A New Image Encryption Scheme Based on Hybrid Chaotic Maps. Complexity, 2020, 2020, 1-23.	0.9	51
30	A novel image encryption/decryption scheme based on integrating multiple chaotic maps. AIP Advances, 2020, 10, .	0.6	29
31	A New Framework for Performing Cardiac Strain Analysis from Cine MRI Imaging in Mice. Scientific Reports, 2020, 10, 7725.	1.6	18
32	A 3D CNN with a Learnable Adaptive Shape Prior for Accurate Segmentation of Bladder Wall Using MR Images. , 2020, , .		11
33	A deep learning-based approach for automatic segmentation and quantification of the left ventricle from cardiac cine MR images. Computerized Medical Imaging and Graphics, 2020, 81, 101717.	3.5	41
34	Classification of Multiple Sclerosis Disease using Cumulative Histogram. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	0
35	Epidural Stimulation Targeting Lower Urinary Tract Function in Spinally Intact and Transected Urethane-Anesthetized Rats. FASEB Journal, 2020, 34, 1-1.	0.2	0
36	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

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37	A Novel CNN-Based CAD System for Early Assessment of Transplanted Kidney Dysfunction. Scientific Reports, 2019, 9, 5948.	1.6	54
38	Automatic Segmentation and Functional Assessment of the Left Ventricle using U-net Fully Convolutional Network. , 2019, , .		4
39	A CNN-Based Framework for Automatic Vitreous Segmentation from OCT Images. , 2019, , .		2
40	Ensemble Learning of Blood Metabolic Biomarkers: A Novel CAD System of Heart Failure. , 2019, , .		2
41	A Deep Learning-Based Approach for Accurate Segmentation of Bladder Wall using MR Images. , 2019, , .		13
42	Computer-Aided Diagnosis of Acute Myocardial Infarction using Time-Dependent Plasma Metabolites. , 2019, , .		2
43	A CNN-Based Framework for Bladder Wall Segmentation Using MRI. , 2019, , .		10
44	A Novel Deep Learning Approach for Left Ventricle Automatic Segmentation in Cardiac Cine MR. , 2019, , .		4
45	A Novel Fully Automated CAD System for Left Ventricle Volume Estimation. , 2018, , .		0
46	Athlete-Customized Injury Prediction using Training Load Statistical Records and Machine Learning. , 2018, , .		17
47	MRI Markers for Early Assessment of Bladder Cancer: A Review. , 2018, , .		4
48	Predictive Biomarkers for Neoadjuvant Chemotherapy Response in Muscle-Invasive Bladder Cancer: A survey. , 2018, , .		0
49	A Novel Fully Automated CAD System for Left Ventricle Volume Estimation. , 2018, , .		1
50	Predictive Biomarkers for Neoadjuvant Chemotherapy Response in Muscle-Invasive Bladder Cancer: A survey. , 2018, , .		1
51	A Novel CAD System for Detecting Acute Rejection of Renal Allografts Based on Integrating Imaging-markers and Laboratory Biomarkers. , 2018, , .		4
52	3D kidney segmentation from abdominal diffusion MRI using an appearance-guided deformable boundary. PLoS ONE, 2018, 13, e0200082.	1.1	39
53	Early diabetic retinopathy diagnosis based on local retinal blood vessel analysis in optical coherence tomography angiography (OCTA) images. Medical Physics, 2018, 45, 4582-4599.	1.6	35
54	A DCE-MRI-Based Noninvasive CAD System for Prostate Cancer Diagnosis. , 2018, , 189-217.		0

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55	A comprehensive non-invasive framework for diagnosing prostate cancer. Computers in Biology and Medicine, 2017, 81, 148-158.	3.9	37
56	A generalized MRI-based CAD system for functional assessment of renal transplant. , 2017, , .		7
57	Towards non-invasive diagnostic techniques for early detection of acute renal transplant rejection: A review. Egyptian Journal of Radiology and Nuclear Medicine, 2017, 48, 257-269.	0.3	36
58	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
59	A comprehensive framework for early assessment of lung injury. , 2017, , .		7
60	3D Kidney Segmentation from Abdominal Images Using Spatial-Appearance Models. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	30
61	Detection of white matter abnormalities in MR brain images for diagnosis of autism in children. , 2016, , .		8
62	An ISO-surfaces based local deformation handling framework of lung tissues. , 2016, , .		10
63	Detection of lung injury using 4D-CT chest images. , 2016, , .		10
64	Computer-aided diagnostic tool for early detection of prostate cancer. , 2016, , .		26
65	A new non-invasive approach for early classification of renal rejection types using diffusion-weighted MRI. , 2016, , .		12
66	3D diffusion MRI-based CAD system for early diagnosis of acute renal rejection. , 2016, , .		12
67	A new NMF-autoencoder based CAD system for early diagnosis of prostate cancer. , 2016, , .		15
68	A random forest-based framework for 3D kidney segmentation from dynamic contrast-enhanced CT images. , 2016, , .		10
69	Image-based CAD system for accurate identification of lung injury. , 2016, , .		13
70	Kidney segmentation from CT images using a 3D NMF-guided active contour model. , 2016, , .		11
71	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
72	Image-Based Computer-Aided Diagnostic System for Early Diagnosis of Prostate Cancer. Lecture Notes in Computer Science, 2016, , 610-618.	1.0	8

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73	A Promising Non-invasive CAD System for Kidney Function Assessment. Lecture Notes in Computer Science, 2016, , 613-621.	1.0	14
74	- Computer-Aided Assessment and Stenting of Tracheal Stenosis. , 2016, , 382-407.		7
75	Segmentation of infant brain MR images based on adaptive shape prior and higher-order MGRF. , 2015, , .		6
76	Segmentation of pathological lungs from CT chest images. , 2015, , .		3
77	A level set-based framework for 3D kidney segmentation from diffusion MR images. , 2015, , .		24
78	A novel framework for automatic segmentation of kidney from DW-MRI. , 2015, , .		19
79	A Novel NMF Guided Level-set for DWI Prostate Segmentation. Journal of Computer Science and Systems Biology, 2014, 07, .	0.0	25
80	Models and methods for analyzing DCE-MRI: A review. Medical Physics, 2014, 41, 124301.	1.6	225
81	A statistical framework for the classification of infant DT images. , 2014, , .		3
82	An integrated geometrical and stochastic approach for accurate infant brain extraction. , 2014, , .		6
83	A novel 4D PDE-based approach for accurate assessment of myocardium function using cine cardiac magnetic resonance images. , 2014, , .		7
84	Fully automated framework for the analysis of myocardial first-pass perfusion MR images. Medical Physics, 2014, 41, 102305.	1.6	12
85	Atlas-based approach for the segmentation of infant DTI MR brain images. , 2014, , .		4
86	Cortical surface complexity in a population-based normative sample. Translational Neuroscience, 2014, 5, .	0.7	18
87	<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
88	A Novel Image-Based Approach for Early Detection of Prostate Cancer Using DCE-MRI. , 2014, , 55-82.		15
89	Dynamic Contrast-Enhanced MRI-Based Early Detection of Acute Renal Transplant Rejection. IEEE Transactions on Medical Imaging, 2013, 32, 1910-1927.	5.4	59
90	A comprehensive non-invasive framework for automated evaluation of acute renal transplant rejection using DCE-MRI. NMR in Biomedicine, 2013, 26, 1460-1470.	1.6	52

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91	Focal cortical dysplasias in autism spectrum disorders. Acta Neuropathologica Communications, 2013, 1, 67.	2.4	117
92	A new shape-based framework for the left ventricle wall segmentation from cardiac first-pass perfusion mri. , 2013, , .		11
93	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. Medical Physics, 2013, 40, 092302.	1.6	31
94	Kidney segmentation using graph cuts and pixel connectivity. Pattern Recognition Letters, 2013, 34, 1470-1475.	2.6	26
95	Segmentation of lung region based on using parallel implementation of joint MGRF: Validation on 3D realistic lung phantoms. , 2013, , .		17
96	Performance evaluation of an automatic MGRF-based lung segmentation approach. AIP Conference Proceedings, 2013, , .	0.3	9
97	Accurate segmentation framework for the left ventricle wall from cardiac cine MRI. , 2013, , .		9
98	Dynamic MRI-based computer aided diagnostic systems for early detection of kidney transplant rejection: A survey. , 2013, , .		8
99	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
100	MAPâ€‘Based Framework for Segmentation of MR Brain Images Based on Visual Appearance and Prior Shape. , 2013, , .		3
101	A new nonrigid registration approach for motion correction of cardiac first-pass perfusion MRI. , 2012, , .		11
102	A novel image-based approach for early detection of prostate cancer. , 2012, , .		10
103	Improving full-cardiac cycle strain estimation from tagged CMR by accurate modeling of 3D image appearance characteristics. , 2012, , .		13
104	Accurate modeling of tagged CMR 3D image appearance characteristics to improve cardiac cycle strain estimation. , 2012, , .		10
105	Non-rigid biomedical image registration using graph cuts with a novel data term. , 2012, , .		7
106	A new nonrigid registration framework for improved visualization of transmural perfusion gradients on cardiac first-pass perfusion MRI. , 2012, , .		10
107	Accurate Automatic Analysis of Cardiac Cine Images. IEEE Transactions on Biomedical Engineering, 2012, 59, 445-455.	2.5	72
108	Precise Segmentation of 3-D Magnetic Resonance Angiography. IEEE Transactions on Biomedical Engineering, 2012, 59, 2019-2029.	2.5	96

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109	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
110	A new 3D automatic segmentation framework for accurate extraction of prostate from diffusion imaging. , 2011, , .		7
111	Non-Invasive Image-Based Approach for Early Detection of Prostate Cancer. , 2011, , .		8
112	State-of-the-Art Medical Image Registration Methodologies: A Survey. , 2011, , 235-280.		30
113	Elastic phantoms generated by microfluidics technology: Validation of an imaged-based approach for accurate measurement of the growth rate of lung nodules. Biotechnology Journal, 2011, 6, 195-203.	1.8	23
114	3D shape analysis of the brain cortex with application to autism. , 2011, , .		9
115	3D automatic approach for precise segmentation of the prostate from Diffusion-Weighted Magnetic Resonance Imaging. , 2011, , .		7
116	A new deformable model-based segmentation approach for accurate extraction of the kidney from abdominal CT images. , 2011, , .		17
117	3D shape analysis of the brain cortex with application to dyslexia. , 2011, , .		19
118	A novel approach for accurate estimation of left ventricle global indexes from short-axis cine MRI. , 2011, , .		12
119	A new 3D automatic segmentation framework for accurate segmentation of prostate from DCE-MRI. , 2011, , .		8
120	Automatic analysis of left ventricle wall thickness using short-axis cine CMR images. , 2011, , .		16
121	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 22, 772-783.	1.0	45
122	A New Image-Based Framework for Analyzing Cine Images. , 2011, , 69-98.		7
123	Shape-Based Detection of Cortex Variability for More Accurate Discrimination Between Autistic and Normal Brains. , 2011, , 161-185.		9
124	3D Shape Analysis for Early Diagnosis of Malignant Lung Nodules. Lecture Notes in Computer Science, 2011, 14, 175-182.	1.0	18
125	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
126	Deformable model guided by stochastic speed with application in cine images segmentation. , 2010, , .		11

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127	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
128	Shape-Appearance Guided Level-Set Deformable Model for Image Segmentation. , 2010, , .		28
129	A new validation approach for the growth rate measurement using elastic phantoms generated by state-of-the-art microfluidics technology. , 2010, , .		7
130	Non-invasive Image-Based Approach for Early Detection of Acute Renal Rejection. Lecture Notes in Computer Science, 2010, 13, 10-18.	1.0	30
131	Survey of watershed modeling and sensor data fusion. , 2009, , .		2
132	SIR-based uplink admission scheme for a two-tier CDMA system under mobility incorporation. , 2007, , .		1