

Eranga Ukwatta

List of Publications by Year in descending order

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74
papers

996
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516215

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500791

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1051
citing authors

#	ARTICLE	IF	CITATIONS
1	Cascaded Triplanar Autoencoder M-Net for Fully Automatic Segmentation of Left Ventricle Myocardial Scar From Three-Dimensional Late Gadolinium-Enhanced MR Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2582-2593.	3.9	13
2	Automated 3D U-Net based segmentation of neonatal cerebral ventricles from 3D ultrasound images. Medical Physics, 2022, 49, 1034-1046.	1.6	6
3	Transfer learning-based approach for automated kidney segmentation on multiparametric MRI sequences. Journal of Medical Imaging, 2022, 9, .	0.8	2
4	Automatic Placental Distal Villous Hypoplasia Scoring using a Deep Convolutional Neural Network Regression Model. , 2022, , .		4
5	Assessment of left atrial fibrosis progression in canines following rapid ventricular pacing using 3D late gadolinium enhanced CMR images. PLoS ONE, 2022, 17, e0269592.	1.1	1
6	Evaluation of fully automated myocardial segmentation techniques in native and contrast-enhanced T1-mapping cardiovascular magnetic resonance images using fully convolutional neural networks. Medical Physics, 2021, 48, 215-226.	1.6	11
7	Evaluation of Finger Flexion Classification at Reduced Lateral Spatial Resolutions of Ultrasound. IEEE Access, 2021, 9, 24105-24118.	2.6	8
8	Fully automated estimation of the mean linear intercept in histopathology images of mouse lung tissue. Journal of Medical Imaging, 2021, 8, 027501.	0.8	3
9	Reducing Motion Impact on Video Magnification Using Wavelet Transform and Principal Component Analysis for Heart Rate Estimation. , 2021, , .		2
10	Fully automated detection of prostate transition zone tumors on T2-weighted and apparent diffusion coefficient (ADC) map MR images using U-Net ensemble. Medical Physics, 2021, 48, 6889-6900.	1.6	7
11	Detection of COVID-19 from chest x-ray images using transfer learning. Journal of Medical Imaging, 2021, 8, 017503.	0.8	18
12	Fully automated localization of prostate peripheral zone tumors on apparent diffusion coefficient map MR images using an ensemble learning method. Journal of Magnetic Resonance Imaging, 2020, 51, 1223-1234.	1.9	10
13	Flexible and Wearable Ultrasonic Sensors and Method for Classifying Individual Finger Flexions. , 2020, , .		0
14	Machine Learning-Based Segmentation of Left Ventricular Myocardial Fibrosis from Magnetic Resonance Imaging. Current Cardiology Reports, 2020, 22, 65.	1.3	8
15	A Voxel-Based Fully Convolution Network and Continuous Max-Flow for Carotid Vessel-Wall-Volume Segmentation From 3D Ultrasound Images. IEEE Transactions on Medical Imaging, 2020, 39, 2844-2855.	5.4	40
16	Patch-Based Convolutional Neural Network for Differentiation of Cyst From Solid Renal Mass on Contrast-Enhanced Computed Tomography Images. IEEE Access, 2020, 8, 8595-8602.	2.6	2
17	Fully automated segmentation of left ventricular scar from 3D late gadolinium enhancement magnetic resonance imaging using a cascaded multi-planar U-Net (CMPU-Net). Medical Physics, 2020, 47, 1645-1655.	1.6	32
18	Automated classification of solid renal masses on contrast-enhanced computed tomography images using convolutional neural network with decision fusion. European Radiology, 2020, 30, 5183-5190.	2.3	43

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19	Left atrial imaging and registration of fibrosis with conduction voltages using LGE-MRI and electroanatomical mapping. Computers in Biology and Medicine, 2019, 111, 103341.	3.9	5
20	Automated segmentation of villi in histopathology images of placenta. Computers in Biology and Medicine, 2019, 113, 103420.	3.9	13
21	Automated segmentation of prostate zonal anatomy on T2-weighted (T2W) and apparent diffusion coefficient (<scp>ADC</scp>) map <scp>MR</scp> images using U-nets. Medical Physics, 2019, 46, 3078-3090.	1.6	36
22	Convolutional neural network-based approach for segmentation of left ventricle myocardial scar from 3D late gadolinium enhancement <scp>MR</scp> images. Medical Physics, 2019, 46, 1740-1751.	1.6	44
23	Fully automated segmentation of left ventricular myocardium from 3D late gadolinium enhancement magnetic resonance images using a U-net convolutional neural network-based model. , 2019, , .		12
24	Effect of T1-mapping technique and diminished image resolution on quantification of infarct mass and its ability in predicting appropriate ICD therapy. Medical Physics, 2018, 45, 1577-1585.	1.6	5
25	Segmentation of Integrated Circuit Layouts from Scan Electron Microscopy Images. , 2018, , .		8
26	Virtual electrophysiological study as a tool for evaluating efficacy of MRI techniques in predicting adverse arrhythmic events in ischemic patients. Physics in Medicine and Biology, 2018, 63, 225008.	1.6	6
27	Myocardial scar segmentation from magnetic resonance images using convolutional neural network. , 2018, , .		14
28	Comparison of myocardial scar geometries generated from 2D and 3D LGE MRI. , 2018, , .		2
29	3D scar segmentation from LGE-MRI using a continuous max-flow method. , 2018, , .		3
30	Sensitive three-dimensional ultrasound assessment of carotid atherosclerosis by weighted average of local vessel wall and plaque thickness change. Medical Physics, 2017, 44, 5280-5292.	1.6	15
31	Evaluation of a T1 mapping technique for stratifying patient risk: A preliminary study using computer simulations of cardiac electrophysiology. , 2016, , .		1
32	Myocardial Infarct Segmentation From Magnetic Resonance Images for Personalized Modeling of Cardiac Electrophysiology. IEEE Transactions on Medical Imaging, 2016, 35, 1408-1419.	5.4	41
33	Rotationally resliced 3D prostate TRUS segmentation using convex optimization with shape priors. Medical Physics, 2015, 42, 877-891.	1.6	13
34	Image-based reconstruction of 3D myocardial infarct geometry for patient specific applications. Proceedings of SPIE, 2015, 9413, .	0.8	7
35	Image-based reconstruction of three-dimensional myocardial infarct geometry for patient-specific modeling of cardiac electrophysiology. Medical Physics, 2015, 42, 4579-4590.	1.6	38
36	Joint segmentation of lumen and outer wall from femoral artery MR images: Towards 3D imaging measurements of peripheral arterial disease. Medical Image Analysis, 2015, 26, 120-132.	7.0	8

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37	Automatic 3D US Brain Ventricle Segmentation in Pre-Term Neonates Using Multi-phase Geodesic Level-Sets with Shape Prior. Lecture Notes in Computer Science, 2015, , 89-96.	1.0	1
38	Longitudinal Analysis of Pre-term Neonatal Brain Ventricle in Ultrasound Images Based on Convex Optimization. Lecture Notes in Computer Science, 2015, , 476-483.	1.0	1
39	Semi-automatic segmentation of preterm neonate ventricle system from 3D ultrasound images. , 2014, , .		1
40	Prostate Segmentation: An Efficient Convex Optimization Approach With Axial Symmetry Using 3-D TRUS and MR Images. IEEE Transactions on Medical Imaging, 2014, 33, 947-960.	5.4	64
41	Interactive Hierarchical-Flow Segmentation of Scar Tissue From Late-Enhancement Cardiac MR Images. IEEE Transactions on Medical Imaging, 2014, 33, 159-172.	5.4	57
42	Dual optimization based prostate zonal segmentation in 3D MR images. Medical Image Analysis, 2014, 18, 660-673.	7.0	46
43	Distribution of guidance models for cardiac resynchronization therapy in the setting of multi-center clinical trials. , 2014, , .		0
44	3D Prostate TRUS Segmentation Using Globally Optimized Volume-Preserving Prior. Lecture Notes in Computer Science, 2014, 17, 796-803.	1.0	4
45	Myocardial Infarct Segmentation and Reconstruction from 2D Late-Gadolinium Enhanced Magnetic Resonance Images. Lecture Notes in Computer Science, 2014, 17, 554-561.	1.0	8
46	Segmentation of the Carotid Arteries from 3D Ultrasound Images. , 2014, , 131-157.		0
47	Cerebral Ventricle Segmentation from 3D Pre-term IVH Neonate MR Images Using Atlas-Based Convex Optimization. Lecture Notes in Computer Science, 2014, , 46-54.	1.0	0
48	3-D Carotid Multi-Region MRI Segmentation by Globally Optimal Evolution of Coupled Surfaces. IEEE Transactions on Medical Imaging, 2013, 32, 770-785.	5.4	39
49	Three-dimensional prostate segmentation using level set with shape constraint based on rotational slices for 3D end-firing TRUS guided biopsy. Medical Physics, 2013, 40, 072903.	1.6	25
50	Quantification and visualization of carotid segmentation accuracy and precision using a 2D standardized carotid map. Physics in Medicine and Biology, 2013, 58, 3671-3703.	1.6	21
51	Three-dimensional segmentation of three-dimensional ultrasound carotid atherosclerosis using sparse field level sets. Medical Physics, 2013, 40, 052903.	1.6	33
52	Prostate segmentation in 3D TRUS using convex optimization with shape constraint. , 2013, , .		4
53	Efficient convex optimization-based curvature dependent contour evolution approach for medical image segmentation. , 2013, , .		4
54	Efficient 3D Endfiring TRUS Prostate Segmentation with Globally Optimized Rotational Symmetry. , 2013, , .		9

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55	Efficient 3D Multi-region Prostate MRI Segmentation Using Dual Optimization. Lecture Notes in Computer Science, 2013, 23, 304-315.	1.0	9
56	Jointly Segmenting Prostate Zones in 3D MRIs by Globally Optimized Coupled Level-Sets. Lecture Notes in Computer Science, 2013, , 12-25.	1.0	5
57	Lateral Ventricle Segmentation of 3D Pre-term Neonates US Using Convex Optimization. Lecture Notes in Computer Science, 2013, 16, 559-566.	1.0	8
58	Fast Globally Optimal Segmentation of 3D Prostate MRI with Axial Symmetry Prior. Lecture Notes in Computer Science, 2013, 16, 198-205.	1.0	8
59	Joint Segmentation of 3D Femoral Lumen and Outer Wall Surfaces from MR Images. Lecture Notes in Computer Science, 2013, 16, 534-541.	1.0	2
60	Fast interactive multi-region cardiac segmentation with linearly ordered labels. , 2012, , .		21
61	Three-dimensional semi-automated segmentation of carotid atherosclerosis from three-dimensional ultrasound images. Proceedings of SPIE, 2012, , .	0.8	8
62	Semi-automated segmentation of carotid artery total plaque volume from three dimensional ultrasound carotid imaging. Proceedings of SPIE, 2012, , .	0.8	8
63	Machine vision system for automated spectroscopy. Machine Vision and Applications, 2012, 23, 111-121.	1.7	9
64	Rotational-Slice-Based Prostate Segmentation Using Level Set with Shape Constraint for 3D End-Firing TRUS Guided Biopsy. Lecture Notes in Computer Science, 2012, 15, 537-544.	1.0	19
65	A Fast Convex Optimization Approach to Segmenting 3D Scar Tissue from Delayed-Enhancement Cardiac MR Images. Lecture Notes in Computer Science, 2012, 15, 659-666.	1.0	9
66	Efficient Global Optimization Based 3D Carotid AB-LIB MRI Segmentation by Simultaneously Evolving Coupled Surfaces. Lecture Notes in Computer Science, 2012, 15, 377-384.	1.0	4
67	Coupled level set approach to segment carotid arteries from 3D ultrasound images. , 2011, , .		11
68	Three-dimensional Ultrasound Imaging of Carotid Atherosclerosis. , 2011, , .		4
69	Segmentation of the lumen and media-adventitia boundaries of the common carotid artery from 3D ultrasound images. Proceedings of SPIE, 2011, , .	0.8	4
70	Three-dimensional ultrasound of carotid atherosclerosis: Semiautomated segmentation using a level set-based method. Medical Physics, 2011, 38, 2479-2493.	1.6	60
71	MO-D-220-07: Semi-Automated Segmentation Method to Quantify Carotid Atherosclerosis from 3D Ultrasound Images. Medical Physics, 2011, 38, 3718-3718.	1.6	0
72	Sci-Fri AM: Imaging - 07: Semi-Automated Segmentation of Carotid Artery Lumen and Wall from Three-Dimensional Ultrasound Images Using Level Sets. Medical Physics, 2010, 37, 3903-3903.	1.6	1

#	ARTICLE	IF	CITATIONS
73	Vision Based Metal Spectral Analysis Using Multi-label Classification. , 2009, , .		6
74	Vision Based Spectroscopy Simulation. , 2008, , .		2