

Amir Hossein Foruzan

List of Publications by Year in descending order

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42
papers

631
citations

759233

12
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610901

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all docs

42
docs citations

42
times ranked

926
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. <i>Medical Image Analysis</i> , 2014, 18, 1217-1232.	11.6	131
2	VesselNet: A deep convolutional neural network with multi pathways for robust hepatic vessel segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2019, 75, 74-83.	5.8	62
3	A knowledge-based technique for liver segmentation in CT data. <i>Computerized Medical Imaging and Graphics</i> , 2009, 33, 567-587.	5.8	50
4	Improved segmentation of low-contrast lesions using sigmoid edge model. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1267-1283.	2.8	47
5	Predicting the principal strong ground motion parameters: A deep learning approach. <i>Applied Soft Computing Journal</i> , 2019, 80, 192-201.	7.2	46
6	Liver segmentation by intensity analysis and anatomical information in multi-slice CT images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009, 4, 287-297.	2.8	45
7	Segmentation of liver and spleen based on computational anatomy models. <i>Computers in Biology and Medicine</i> , 2015, 67, 146-160.	7.0	43
8	A Hessian-based filter for vascular segmentation of noisy hepatic CT scans. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 199-205.	2.8	34
9	A generalized active shape model for segmentation of liver in low-contrast CT volumes. <i>Computers in Biology and Medicine</i> , 2017, 82, 59-70.	7.0	25
10	Improved PPG-based estimation of the blood pressure using latent space features. <i>Signal, Image and Video Processing</i> , 2019, 13, 1141-1147.	2.7	16
11	Robust hepatic vessel segmentation using multi deep convolution network. <i>Proceedings of SPIE</i> , 2017, , .	0.8	13
12	Balancing the data term of graph-cuts algorithm to improve segmentation of hepatic vascular structures. <i>Computers in Biology and Medicine</i> , 2018, 93, 117-126.	7.0	12
13	Integration of a knowledge-based constraint into generative models with applications in semi-automatic segmentation of liver tumors. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101725.	5.7	12
14	Multimodality liver registration of Open-MR and CT scans. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1253-1267.	2.8	10
15	Preliminary study on statistical shape model applied to diagnosis of liver cirrhosis. , 2011, , .		9
16	Content-based medical image retrieval of CT images of liver lesions using manifold learning. <i>International Journal of Multimedia Information Retrieval</i> , 2019, 8, 233-240.	5.2	9
17	Integration of CNN, CBMIR, and Visualization Techniques for Diagnosis and Quantification of Covid-19 Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1873-1880.	6.3	9
18	Incorporating prior shape knowledge via data-driven loss model to improve 3D liver segmentation in deep CNNs. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 249-257.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Segmentation of brain tissues using a 3-D multi-layer Hidden Markov Model. Computers in Biology and Medicine, 2013, 43, 121-130.	7.0	6
20	Developing an explainable deep learning boundary correction method by incorporating cascaded x-Dim models to improve segmentation defects in liver CT images. Computers in Biology and Medicine, 2022, 140, 105106.	7.0	6
21	PCA Based Statical Shape Model of the Spleen. , 2009, , .		5
22	Improvement of Statistical Shape Models for Soft Tissues Using Modified-Coherent Point Drift. IFAC-PapersOnLine, 2015, 48, 36-41.	0.9	5
23	A Controlled Generative Model for Segmentation of Liver Tumors. , 2019, , .		5
24	A real-time stable volumetric Mass-Spring Model based on a multi-scale mesh representation. , 2016, , .		4
25	Data Augmentation of CT Images of Liver Tumors to Reconstruct Super-Resolution Slices based on a Multi-Frame Approach. , 2019, , .		4
26	A novel method for the estimation of the acoustic bubble radius distribution. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107497.	5.0	4
27	Synthesis of MnO ₂ Nanoparticles in the Presence and Absence of Ultrasonic Irradiation. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2619-2626.	1.5	3
28	Improving active shape models performance in low-contrast images using a KNN-based search algorithm - with applications in liver segmentation. , 2015, , .		2
29	Automatic segmentation of prostate in MR images using deep learning and multi-atlas techniques. , 2018, , .		2
30	Anatomical decomposition of human liver volume to build accurate statistical shape models. Signal, Image and Video Processing, 2018, 12, 331-338.	2.7	1
31	Reducing reconstruction error of classified textural patches by integration of random forests and coupled dictionary nonlinear regressors: with applications to super-resolution of abdominal CT images. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1469-1480.	2.8	1
32	Content-Based Retrieval of Focal Liver Lesions Using Geometrical and Textural Features of Multi-Phase CT-Scan Images. Smart Innovation, Systems and Technologies, 2021, , 251-263.	0.6	1
33	Improving the Performance of Deep CNNs in Medical Image Segmentation with Limited Resources. Intelligent Systems Reference Library, 2020, , 79-94.	1.2	1
34	A Multi-Cluster Random Forests-Based Approach to Super-Resolution of Abdominal CT Images Using Deep Neural Networks. , 2020, , .		1
35	A framework for probabilistic atlas-based organ segmentation. , 2016, , .		0
36	Incorporating a locally estimated appearance model in the graphcuts algorithm to extract small hepatic vessels. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Incorporating a Local Speed Map in the Levelset Function with Applications in Liver Segmentation. , 2017, , .		0
38	Improving Retrieval of Pathological Liver Images in Multi-phase CT Data Using a Correlation Graph Distance. , 2019, , .		0
39	A low-complexity volumetric model with dynamic inter-connections to represent human liver in surgical simulators. International Journal of Medical Engineering and Informatics, 2021, 13, 121.	0.3	0
40	RECONSTRUCTION OF HIGH-RESOLUTION HEPATIC TUMOR CT IMAGES USING AN AUGMENTATION-BASED SUPER-RESOLUTION TECHNIQUE. Biomedical Engineering - Applications, Basis and Communications, 2021, 33, 2150026.	0.6	0
41	Integration of Dynamic Multi-Atlas and Deep Learning Techniques to Improve Segmentation of the Prostate in MR Images. International Journal of Image and Graphics, 0, , 2250031.	1.5	0
42	EFFECTIVE SEMANTIC FEATURES TO IMPROVE RETRIEVAL OF LUNG NODULES IN CT SCAN IMAGES. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	0