Georgy Gimel'farb

List of Publications by Year
in descending order

78	1,875	394421 19	501196 28
papers	citations	h-index	g-index

78	78	78	1855
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	4.2	39
2	A Novel CNN Segmentation Framework Based on Using New Shape and Appearance Features. , 2018, , .		8
3	Alzheimer rsquo s disease diagnostics by a 3D deeply supervised adaptable convolutional network. Frontiers in Bioscience - Landmark, 2018, 23, 584-596.	3.0	116
4	A computerâ€aided diagnostic system for detecting diabetic retinopathy in optical coherence tomography images. Medical Physics, 2017, 44, 914-923.	3.0	86
5	A comprehensive non-invasive framework for diagnosing prostate cancer. Computers in Biology and Medicine, 2017, 81, 148-158.	7.0	37
6	A Raspberry Pi 2-based stereo camera depth meter. , 2017, , .		4
7	A generalized MRI-based CAD system for functional assessment of renal transplant. , 2017, , .		7
8	Accurate Lungs Segmentation on CT Chest Images by Adaptive Appearance-Guided Shape Modeling. IEEE Transactions on Medical Imaging, 2017, 36, 263-276.	8.9	80
9	A comprehensive framework for early assessment of lung injury. , 2017, , .		7
10	Machine Learning Applications in Medical Image Analysis. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-2.	1.3	9
11	3D Kidney Segmentation from Abdominal Images Using Spatial-Appearance Models. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	1.3	30
12	A fast stochastic framework for automatic MR brain images segmentation. PLoS ONE, 2017, 12, e0187391.	2.5	10
13	Lidar guided stereo simultaneous localization and mapping (SLAM) for UAV outdoor 3-D scene reconstruction. , 2016, , .		22
14	Image-based CAD system for accurate identification of lung injury. , 2016, , .		13
15	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
16	Combined ternary patterns for texture recognition. , 2015, , .		1
17	Texture modelling with non-contiguous filters. , 2015, , .		1
18	Tsai camera calibration enhanced. , 2015, , .		12

#	Article	IF	Citations
19	Models and methods for analyzing DCEâ€MRI: A review. Medical Physics, 2014, 41, 124301.	3.0	225
20	Fully automated framework for the analysis of myocardial firstâ€pass perfusion MR images. Medical Physics, 2014, 41, 102305.	3.0	12
21	Dynamic Contrast-Enhanced MRI-Based Early Detection of Acute Renal Transplant Rejection. IEEE Transactions on Medical Imaging, 2013, 32, 1910-1927.	8.9	59
22	Texture modelling with generic translation- and contrast/offset-invariant 2nd–4th-order MGRFs. , 2013, , .		2
23	Myocardial borders segmentation from cine MR images using bidirectional coupled parametric deformable models. Medical Physics, 2013, 40, 092302.	3.0	31
24	Symmetric dynamic programming stereo using block matching guidance. , 2013, , .		10
25	Multi-Kinect scene reconstruction: Calibration and depth inconsistencies. , 2013, , .		16
26	Towards structural analysis of solution spaces for ill-posed discrete 1D optimisation problems. , 2013, , .		0
27	Computer-Aided Diagnosis Systems for Lung Cancer: Challenges and Methodologies. International Journal of Biomedical Imaging, 2013, 2013, 1-46.	3.9	158
28	Automatic Detection of 2D and 3D Lung Nodules in Chest Spiral CT Scans. International Journal of Biomedical Imaging, 2013, 2013, 1-11.	3.9	27
29	Segmentation of lung region based on using parallel implementation of joint MGRF: Validation on 3D realistic lung phantoms. , 2013, , .		17
30	Validating a new methodology for strain estimation from cardiac cine MRI. , 2013, , .		4
31	Performance evaluation of an automatic MGRF-based lung segmentation approach. AIP Conference Proceedings, 2013, , .	0.4	9
32	Contrast/offset-invariant generic low-order MGRF models of uniform textures. , 2013, , .		3
33	Appearance-based diagnostic system for early assessment of malignant lung nodules. , 2012, , .		13
34	3D object tracking with a high-resolution GPU based real-time stereo. , 2012, , .		0
35	Fast point-of-interest detection from real-time stereo. , 2012, , .		0
36	Dyslexia Diagnostics by 3-D Shape Analysis of the Corpus Callosum. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 700-708.	3.2	28

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37	New automated Markovâ€“Gibbs random field based framework for myocardial wall viability quantification on agent enhanced cardiac magnetic resonance images. International Journal of Cardiovascular Imaging, 2012, 28, 1683-1698.	1.5	13
38	Modified Akaike information criterion for estimating the number of components in a probability mixture model. , 2012, , .		4
39	Improving full-cardiac cycle strain estimation from tagged CMR by accurate modeling of 3D image appearance characteristics. , 2012, , .		13
40	Accurate modeling of tagged CMR 3D image appearance characteristics to improve cardiac cycle strain estimation. , 2012, , .		10
41	Accurate Automatic Analysis of Cardiac Cine Images. IEEE Transactions on Biomedical Engineering, 2012, 59, 445-455.	4.2	72
42	Precise Segmentation of 3-D Magnetic Resonance Angiography. IEEE Transactions on Biomedical Engineering, 2012, 59, 2019-2029.	4.2	96
43	A Novel Approach for Global Lung Registration Using 3D Markov-Gibbs Appearance Model. Lecture Notes in Computer Science, 2012, 15, 114-121.	1.3	9
44	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.	3.5	23
45	Accurate Automated Detection of Autism Related Corpus Callosum Abnormalities. Journal of Medical Systems, 2011, 35, 929-939.	3.6	40
46	A novel approach for accurate estimation of left ventricle global indexes from short-axis cine MRI. , 2011, , .		12
47	A new framework for automated identification of pathological tissues in contrast enhanced cardiac magnetic resonance images. , 2011, , .		6
48	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.	1.3	35
49	Deformable model guided by stochastic speed with application in cine images segmentation. , 2010, , .		11
50	A novel 3D segmentation approach for segmenting the prostate from dynamic contrast enhanced MRI using current appearance and learned shape prior. , 2010, , .		4
51	Shape-Appearance Guided Level-Set Deformable Model for Image Segmentation. , 2010, , .		28
52	Appearance analysis for diagnosing malignant lung nodules. , 2010, , .		16
53	Performance analysis of multi-resolution symmetric dynamic programming stereo on GPU. , 2010, , .		9
54	Modelling of elastic deformation using stereo vision and smoothed particle hydrodynamics. , 2009, , .		0

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55	3D joint Markov-Gibbs model for segmenting the blood vessels from MRA. , 2009, , .		4
56	Robust image segmentation using learned priors. , 2009, , .		9
57	Real Time Rectification for Stereo Correspondence. , 2009, , .		20
58	Breaking the ‘Ton’: Achieving 1% depth accuracy from stereo in real time. , 2009, , .		6
59	Robust rigid image registration with arbitrary extrinsic photometric noise. , 2009, , .		0
60	Intelligent Vision Processor. , 2008, , .		0
61	Towards an intelligent vision processor. , 2008, , .		4
62	Promising results for early diagnosis of lung cancer. , 2008, , .		9
63	A new approach for automatic analysis of 3D low dose CT images for accurate monitoring the detected lung nodules. , 2008, , .		8
64	Comparing subspace methods for face recognition. , 2008, , .		2
65	Global image registration based on learning the prior appearance model. , 2008, , .		2
66	A novel approach for global registration of medical images based on learning the prior appearance model. , 2008, , .		0
67	Image segmentation with a parametric deformable model using shape and appearance priors. , 2008, , .		16
68	Autism Diagnostics by 3D Texture Analysis of Cerebral White Matter Gyrifications. , 2007, 10, 882-890.		15
69	A NEW IMAGE ANALYSIS APPROACH FOR AUTOMATIC CLASSIFICATION OF AUTISTIC BRAINS. , 2007, , .		14
70	Robust Face Matching Under Large Occlusions. , 2007, , .		1
71	Precise segmentation of multimodal images. IEEE Transactions on Image Processing, 2006, 15, 952-968.	9.8	163
72	Image Alignment Using Learning Prior Appearance Model. , 2006, , .		8

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73	Appearance Models for Robust Segmentation of Pulmonary Nodules in 3D LDCT Chest Images. Lecture Notes in Computer Science, 2006, 9, 662-670.	1.3	20
74	Fast Unsupervised Segmentation of 3D Magnetic Resonance Angiography. , 2006, , .		2
75	A Novel Approach for Image Alignment Using a Markovâ€“Gibbs Appearance Model. Lecture Notes in Computer Science, 2006, 9, 734-741.	1.3	3
76	A New Adaptive Probabilistic Model of Blood Vessels for Segmenting MRA Images. Lecture Notes in Computer Science, 2006, 9, 799-806.	1.3	8
77	Probabilistic regularisation and symmetry in binocular dynamic programming stereo. Pattern Recognition Letters, 2002, 23, 431-442.	4.2	64
78	Analysis of 3D Corpus Callosum Images in the Brains of Autistic Individuals. , 0, , 1529-1554.		0