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List of Publications by Year in Descending Order

94 papers	3,629 citations	21 h-index	59 g-index
124 ext. papers	4,650 ext. citations	4.9 avg, IF	4.78 L-index

#	Paper	IF	Citations
94	Synthesizing Point Cloud Data Set for Historical Dome Systems. *Communications in Computer and Information Science*, **2022**, 538-554	0.3	
93	UGQE: Uncertainty Guided Query Expansion. *Lecture Notes in Computer Science*, **2022**, 109-120	0.9	
92	CHAOS Challenge - combined (CT-MR) healthy abdominal organ segmentation. *Medical Image Analysis*, **2021**, 69, 101950	15.4	83
91	Rethinking CNN-Based Pansharpening: Guided Colorization of Panchromatic Images via GANs. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 3486-3501	8.1	26
90	Uncertainty-Based Dynamic Graph Neighborhoods for Medical Segmentation. *Lecture Notes in Computer Science*, **2021**, 255-265	0.9	
89	Comparison of semi-automatic and deep learning-based automatic methods for liver segmentation in living liver transplant donors. *Diagnostic and Interventional Radiology*, **2020**, 26, 11-21	3.2	22
88	Semantic Segmentation with Extended DeepLabv3 Architecture **2019**,		10
87	Anncolvar: Approximation of Complex Collective Variables by Artificial Neural Networks for Analysis and Biasing of Molecular Simulations. *Frontiers in Molecular Biosciences*, **2019**, 6, 25	5.6	14
86	Supervised Classification of White Matter Fibers Based on Neighborhood Fiber Orientation Distributions Using an Ensemble of Neural Networks. *Mathematics and Visualization*, **2019**, 143-154	0.6	1
85	Bandlets on Oriented Graphs: Application to Medical Image Enhancement. *IEEE Access*, **2019**, 7, 32589-32601	3.9	5
84	Neighborhood resolved fiber orientation distributions (NRFOD) in automatic labeling of white matter fiber pathways. *Medical Image Analysis*, **2018**, 46, 130-145	15.4	2
83	Single-frame super resolution of remote-sensing images by convolutional neural networks. *International Journal of Remote Sensing*, **2018**, 39, 2463-2479	3.1	29
82	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. *Magnetic Resonance Imaging*, **2018**, 49, 145-158	3.3	5
81	A RNN based time series approach for forecasting turkish electricity load **2018**,		16
80	A convolutional neural networks oriented approach for voxel-based 3D object classification **2018**,		1
79	Turkish lira banknotes classification using deep convolutional neural networks **2018**,		2
78	Semi-automated detection of anterior cruciate ligament injury from MRI. *Computer Methods and Programs in Biomedicine*, **2017**, 140, 151-164	6.9	32

77	Tetralogy of Fallot Surgical Repair: Shunt Configurations, Ductus Arteriosus and the Circle of Willis. *Cardiovascular Engineering and Technology*, **2017**, 8, 107-119	2.2	14
76	Inpainting by deep autoencoders using an advisor network **2017**,		3
75	Cerebral vessel classification with convolutional neural networks **2017**,		2
74	Monoplane 3D-2D registration of cerebral angiograms based on multi-objective stratified optimization. *Physics in Medicine and Biology*, **2017**, 62, 9377-9394	3.8	1
73	Targeted vessel reconstruction in non-contrast-enhanced steady-state free precession angiography. *NMR in Biomedicine*, **2016**, 29, 532-44	4.4	5
72	Landmarks inside the shape: Shape matching using image descriptors. *Pattern Recognition*, **2016**, 49, 79-88	7.7	13
71	Vessel Orientation Constrained Quantitative Susceptibility Mapping (QSM) Reconstruction. *Lecture Notes in Computer Science*, **2016**, 467-474	0.9	3
70	A higher-order tensor vessel tractography for segmentation of vascular structures. *IEEE Transactions on Medical Imaging*, **2015**, 34, 2172-85	11.7	43
69	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). *IEEE Transactions on Medical Imaging*, **2015**, 34, 1993-2024	11.7	2132
68	Elucidating Intravoxel Geometry in Diffusion-MRI: Asymmetric Orientation Distribution Functions (AODFs) Revealed by a Cone Model. *Lecture Notes in Computer Science*, **2015**, 231-238	0.9	2
67	Standardized evaluation methodology and reference database for evaluating IVUS image segmentation. *Computerized Medical Imaging and Graphics*, **2014**, 38, 70-90	7.6	81
66	Screened Poisson Hyperfields for Shape Coding. *SIAM Journal on Imaging Sciences*, **2014**, 7, 2558-2590	1.9	5
65	An IVUS image-based approach for improvement of coronary plaque characterization. *Computers in Biology and Medicine*, **2013**, 43, 268-80	7	17
64	Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. *Medical Image Analysis*, **2013**, 17, 859-76	15.4	120
63	Vessel tractography using an intensity based tensor model with branch detection. *IEEE Transactions on Medical Imaging*, **2013**, 32, 348-63	11.7	44
62	Registration of Brain Tumor Images Using Hyper-Elastic Regularization **2013**, 101-114		1
61	Template-based CTA to x-ray angio rigid registration of coronary arteries in frequency domain with automatic x-ray segmentation. *Medical Physics*, **2013**, 40, 101903	4.4	10
60	Concordance between computer-based neuroimaging findings and expert assessments in dementia grading **2013**,		2

59	Tumor-Cut: segmentation of brain tumors on contrast enhanced MR images for radiosurgery applications. *IEEE Transactions on Medical Imaging*, **2012**, 31, 790-804	11.7	153
58	Translation, Scale, and Deformation Weighted Polar Active Contours. *Journal of Mathematical Imaging and Vision*, **2012**, 44, 354-365	1.6	1
57	Inter-hemispheric atrophy better correlates with expert ratings than hemispheric cortical atrophy **2012**,		1
56	A Sobolev-type metric for polar active contours **2011**,		3
55	Generating shapes by analogies: An application to hearing aid design. *CAD Computer Aided Design*, **2011**, 43, 47-56	2.9	3
54	Plant Image Retrieval Using Color, Shape and Texture Features. *Computer Journal*, **2011**, 54, 1475-1490	1.3	49
53	A new approach for improving coronary plaque component analysis based on intravascular ultrasound images. *Ultrasound in Medicine and Biology*, **2010**, 36, 1245-58	3.5	30
52	EFFICIENT CLASSIFICATION OF SCANNED MEDIA USING SPATIAL STATISTICS. *International Journal of Pattern Recognition and Artificial Intelligence*, **2010**, 24, 917-946	1.1	1
51	Manifold Learning for Image-Based Gating of Intravascular Ultrasound(IVUS) Pullback Sequences. *Lecture Notes in Computer Science*, **2010**, 139-148	0.9	6
50	Nonparametric joint shape learning for customized shape modeling. *Computerized Medical Imaging and Graphics*, **2010**, 34, 298-307	7.6	1
49	Stent implant follow-up in intravascular optical coherence tomography images. *International Journal of Cardiovascular Imaging*, **2010**, 26, 809-16	2.5	27
48	Coupled nonparametric shape and moment-based intershape pose priors for multiple basal ganglia structure segmentation. *IEEE Transactions on Medical Imaging*, **2010**, 29, 1959-78	11.7	14
47	3D ball skinning using PDEs for generation of smooth tubular surfaces. *CAD Computer Aided Design*, **2010**, 42, 18-26	2.9	12
46	Anatomical Landmark Based Registration of Contrast Enhanced T1-Weighted MR Images. *Lecture Notes in Computer Science*, **2010**, 91-103	0.9	1
45	Cellular automata segmentation of brain tumors on post contrast MR images. *Lecture Notes in Computer Science*, **2010**, 13, 137-46	0.9	13
44	A new method for characterization of coronary plaque composition via IVUS images **2009**,		7
43	Volumetric segmentation of multiple basal ganglia structures using nonparametric coupled shape and inter-shape pose priors **2009**,		1
42	Freeform shape clustering for customized design automation **2009**,		2

41	Statistical region-based segmentation of ultrasound images. *Ultrasound in Medicine and Biology*, **2009**, 35, 781-95	3.5	33
40	Pearling: Stroke segmentation with crusted pearl strings. *Pattern Recognition and Image Analysis*, **2009**, 19, 277-283	1	9
39	Plant image retrieval using color and texture features **2009**,		5
38	Automatic registration of follow-up brain MRI scans **2009**,		1
37	A new 3-D automated computational method to evaluate in-stent neointimal hyperplasia in in-vivo intravascular optical coherence tomography pullbacks. *Lecture Notes in Computer Science*, **2009**, 12, 776-85	0.9	19
36	Shape-driven segmentation of the arterial wall in intravascular ultrasound images. *IEEE Transactions on Information Technology in Biomedicine*, **2008**, 12, 335-47		88
35	3-D shape modeling for hearing aid design [Applications Corner]. *IEEE Signal Processing Magazine*, **2008**, 25, 98-102	9.4	7
34	Coupled nonparametric shape priors for segmentation of multiple basal ganglia structures **2008**,		2
33	Semi-automatic matching of OCT and IVUS images for image fusion **2008**,		4
32	Estimation of Vector Fields in Unconstrained and Inequality Constrained Variational Problems for Segmentation and Registration. *Journal of Mathematical Imaging and Vision*, **2008**, 31, 57-72	1.6	3
31	Variational Skinning of an Ordered Set of Discrete 2D Balls **2008**, 450-461		3
30	Customized design of hearing aids using statistical shape learning. *Lecture Notes in Computer Science*, **2008**, 11, 518-26	0.9	7
29	REGISTRATION OF ULTRASOUND IMAGES USING AN INFORMATION-THEORETIC FEATURE DETECTOR **2007**,		9
28	An Information-Theoretic Detector Based Scheme for Registration of Speckled Medical Images **2007**,		1
27	A variational approach to problems in calibration of multiple cameras. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 1322-38	13.3	29
26	Efficient segmentation based on Eikonal and diffusion equations. *International Journal of Computer Mathematics*, **2007**, 84, 1309-1324	1.2	15
25	A Variational Approach to the Evolution of Radial Basis Functions for Image Segmentation **2007**,		6
24	Variational guidewire tracking using phase congruency **2007**, 10, 612-9		14

23	Interacting Active Rectangles for Estimation of Intervertebral Disk Orientation **2006**,		3
22	Semi-Automatic Lymph Node Segmentation in LN-MRI **2006**,		11
21	Information-theoretic feature detection in ultrasound images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 2638-42		7
20	Anatomically-Aware, Automatic, and Fast Registration of 3D Ear Impression Models **2006**,		3
19	Efficient and Robust Segmentations Based on Eikonal and Diffusion PDEs. *Lecture Notes in Computer Science*, **2006**, 339-348	0.9	
18	Fast incorporation of optical flow into active polygons. *IEEE Transactions on Image Processing*, **2005**, 14, 745-59	8.7	15
17	Information-Theoretic Active Polygons for Unsupervised Texture Segmentation. *International Journal of Computer Vision*, **2005**, 62, 199-220	10.6	47
16	Graph cuts segmentation using an elliptical shape prior **2005**,		68
15	Approximate First Integrals of a Galaxy Model. *Nonlinear Dynamics*, **2002**, 28, 195-211	5	8
14	Unifying probabilistic and variational estimation. *IEEE Signal Processing Magazine*, **2002**, 19, 37-47	9.4	31
13	Stochastic differential equations and geometric flows. *IEEE Transactions on Image Processing*, **2002**, 11, 1405-16	8.7	18
12	Segmentation and target recognition in SAR imagery using a level-sets-multiscale-filtering technique **2001**,		3
11	Restoration of error-diffused images using projection onto convex sets. *IEEE Transactions on Image Processing*, **2001**, 10, 1836-41	8.7	16
10	QR-RLS algorithm for error diffusion of color images. *Optical Engineering*, **2000**, 39, 2860	1.1	
9	Ultrasound-Specific Segmentation via Decorrelation and Statistical Region-Based Active Contours		16
8	A contour-based approach to 3D text labeling on triangulated surfaces		2
7	Active polyhedron: surface evolution theory applied to deformable meshes		9
6	Efficient classification of scanned media using spatial statistics		2

List of Publications

5	A variational approach to problems in calibration of multiple cameras	3
4	Coupled PDEs for non-rigid registration and segmentation	26
3	A vertex-based representation of objects in an image	8
2	Active polygon for object tracking	2
1	Algorithms for stochastic approximations of curvature flows	2