

Jon Sparring

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,058
citations

758635

12
h-index

433756

31
g-index

76
all docs

76
docs citations

76
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920.	5.4	363
2	Vessel-guided airway tree segmentation: A voxel classification approach. Medical Image Analysis, 2010, 14, 527-538.	7.0	112
3	Mass preserving image registration for lung CT. Medical Image Analysis, 2012, 16, 786-795.	7.0	67
4	Information measures in scale-spaces. IEEE Transactions on Information Theory, 1999, 45, 1051-1058.	1.5	61
5	Diffeomorphic Spectral Matching of Cortical Surfaces. Lecture Notes in Computer Science, 2013, 23, 376-389.	1.0	56
6	The Visible Ear: A Digital Image Library of the Temporal Bone. Orl, 2002, 64, 378-381.	0.6	47
7	Virtual trackballs revisited. IEEE Transactions on Visualization and Computer Graphics, 2004, 10, 206-216.	2.9	38
8	Photon differentials. , 2007, , .		25
9	Locally Orderless Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1437-1450.	9.7	19
10	Experimental cerebral malaria is associated with profound loss of both glycan and protein components of the endothelial glycocalyx. FASEB Journal, 2019, 33, 2058-2071.	0.2	18
11	Airway Tree Extraction with Locally Optimal Paths. Lecture Notes in Computer Science, 2009, 12, 51-58.	1.0	18
12	Maurer-Cartan Forms for Fields on Surfaces: Application to Heart Fiber Geometry. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2492-2504.	9.7	15
13	Diffusion Based Photon Mapping. Computer Graphics Forum, 2008, 27, 2114-2127.	1.8	13
14	Perceptually relevant and piecewise linear matching of silhouettes. Pattern Recognition, 2005, 38, 75-93.	5.1	12
15	Bayes Reconstruction of Missing Teeth. Journal of Mathematical Imaging and Vision, 2008, 31, 245-254.	0.8	12
16	Novel approach to measure the size of plasma membrane nanodomains in single molecule localization microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 868-877.	1.1	12
17	Muscle fibre morphology and microarchitecture in cerebral palsy patients obtained by 3D synchrotron X-ray computed tomography. Computers in Biology and Medicine, 2019, 107, 265-269.	3.9	11
18	Synchrotron radiation μ CT and histology evaluation of bone-to-implant contact. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1448-1457.	0.7	8

#	ARTICLE	IF	CITATIONS
19	Restoring drifted electron microscope volumes using synaptic vesicles at sub-pixel accuracy. Communications Biology, 2020, 3, 81.	2.0	8
20	Learning COPD Sensitive Filters in Pulmonary CT. Lecture Notes in Computer Science, 2009, 12, 699-706.	1.0	8
21	Generalized Partial Volume: An Inferior Density Estimator to Parzen Windows for Normalized Mutual Information. Lecture Notes in Computer Science, 2011, 22, 436-447.	1.0	8
22	Analysis of shape and spatial interaction of synaptic vesicles using data from focused ion beam scanning electron microscopy (FIB-SEM). Frontiers in Neuroanatomy, 2015, 9, 116.	0.9	7
23	Photon Differential Splatting for Rendering Caustics. Computer Graphics Forum, 2014, 33, 252-263.	1.8	6
24	Reduction of variable-truncation artifacts from beam occlusion during <i>in situ</i> x-ray tomography. Measurement Science and Technology, 2017, 28, 124004.	1.4	6
25	Comparison of manual and machine learning image processing approaches to determine fungiform papillae on the tongue. Scientific Reports, 2020, 10, 18694.	1.6	6
26	Cellular 3D-reconstruction and analysis in the human cerebral cortex using automatic serial sections. Communications Biology, 2021, 4, 1030.	2.0	6
27	On generalized entropies and scale-space. Lecture Notes in Computer Science, 1997, , 51-64.	1.0	6
28	Atlases of Cardiac Fiber Differential Geometry. Lecture Notes in Computer Science, 2013, , 442-449.	1.0	6
29	Moving Frames for Heart Fiber Geometry. Lecture Notes in Computer Science, 2013, 23, 524-535.	1.0	6
30	Smoothing images creates corners. Image and Vision Computing, 2000, 18, 261-266.	2.7	5
31	Anisotropic diffusion tensor applied to temporal mammograms: An application to breast cancer risk assessment. , 2010, 2010, 3178-81.		5
32	Maximum a Posteriori Estimation of Linear Shape Variation With Application to Vertebra and Cartilage Modeling. IEEE Transactions on Medical Imaging, 2011, 30, 1514-1526.	5.4	5
33	Estimating the thickness of ultra thin sections for electron microscopy by image statistics. , 2014, , .		5
34	How Few Annotations are Needed for Segmentation Using a Multi-planar U-Net?. Lecture Notes in Computer Science, 2021, , 209-216.	1.0	5
35	Cube propagation for focal brain atrophy estimation. , 2013, , .		4
36	Analysing the distribution of synaptic vesicles using a spatial point process model. , 2014, , .		4

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37	Ballet balance strategies. <i>Simulation Modelling Practice and Theory</i> , 2006, 14, 1135-1142.	2.2	3
38	Image registration using stationary velocity fields parameterized by norm-minimizing Wendland kernel. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
39	Measuring Shape Relations Using r-Parallel Sets. <i>Journal of Mathematical Imaging and Vision</i> , 2021, 63, 1069-1083.	0.8	3
40	Generalizations of Ripley's K-function with Application to Space Curves. <i>Lecture Notes in Computer Science</i> , 2019, , 731-742.	1.0	3
41	Reconstructing Teeth with Bite Information. , 2007, , 102-111.		3
42	ESTIMATION OF SAMPLE SPACING IN STOCHASTIC PROCESSES. <i>Image Analysis and Stereology</i> , 2017, 36, 43.	0.4	3
43	Guest Editorial: Special Issue on Statistics of Shapes and Textures. <i>Journal of Mathematical Imaging and Vision</i> , 2002, 17, 87-87.	0.8	2
44	Multi-scale Singularity Trees: Soft-Linked Scale-Space Hierarchies. <i>Lecture Notes in Computer Science</i> , 2005, , 97-106.	1.0	2
45	Guessing Tangents in Normal Flows. <i>Journal of Mathematical Imaging and Vision</i> , 2008, 31, 195-205.	0.8	2
46	Mass preserving registration for lung CT. , 2009, , .		2
47	Reconstructing the Optical Thickness from Hoffman Modulation Contrast Images. <i>Lecture Notes in Computer Science</i> , 2003, , 526-533.	1.0	2
48	Stepwise Inverse Consistent Euler's Scheme for Diffeomorphic Image Registration. <i>Lecture Notes in Computer Science</i> , 2014, , 223-230.	1.0	2
49	Reconstructing Binary Signals from Local Histograms. <i>Entropy</i> , 2022, 24, 433.	1.1	2
50	DIRECT ESTIMATION OF FIRST ORDER OPTIC FLOW. , 1995, , 225-238.		1
51	Asymmetry quantization and application to human mandibles. , 2004, , .		1
52	Bayes estimation of shape model with application to vertebrae boundaries. , 2009, , .		1
53	P1-285: WHITE MATTER HYPOINTENSITY GROWTH RATE CORRELATES WITH RATE OF BRAIN ATROPHY. , 2014, 10, P414-P414.		1
54	IC-P-131: WHITE MATTER HYPOINTENSITY GROWTH RATE CORRELATES WITH RATE OF BRAIN ATROPHY. , 2014, 10, P75-P76.		1

#	ARTICLE	IF	CITATIONS
55	Transitions of Multi-scale Singularity Trees. Lecture Notes in Computer Science, 2005, , 223-233.	1.0	1
56	Detection and Localization of Random Signals. Lecture Notes in Computer Science, 2003, , 785-797.	1.0	1
57	Cardiac Fiber Inpainting Using Cartan Forms. Lecture Notes in Computer Science, 2013, 16, 509-517.	1.0	1
58	Moving Frames for Heart Fiber Reconstruction. Lecture Notes in Computer Science, 2015, 24, 527-539.	1.0	1
59	Growth and motion in three-dimensional medical images. IEEE Transactions on Medical Imaging, 2003, 22, 697-698.	5.4	0
60	A graphical user-interface and an image processing toolkit for Perl. Software - Practice and Experience, 2005, 35, 467-490.	2.5	0
61	MICCAI. Computer Aided Surgery, 2007, 12, 309-310.	1.8	0
62	Special Issue on Tribute Workshop for Peter Johansen. Journal of Mathematical Imaging and Vision, 2008, 31, 119-120.	0.8	0
63	Automatic measurement of wrist synovitis from contrast-enhanced MRI: a registration-centered approach. , 2013, , .		0
64	Diffeomorphic image registration with automatic time-step adjustment. , 2015, , .		0
65	Combining the boundary shift integral and tensor-based morphometry for brain atrophy estimation. Proceedings of SPIE, 2016, , .	0.8	0
66	Deformation-based atrophy computation by surface propagation and its application to Alzheimer's disease. Journal of Medical Imaging, 2016, 3, 014005.	0.8	0
67	Using a high-level parallel programming language for GPU-accelerated tomographic reconstruction. , 2019, , .		0
68	A Novel Approach to Tongue Standardization and Feature Extraction. Lecture Notes in Computer Science, 2020, , 36-45.	1.0	0
69	Line-Stepping for Shell Meshes. , 2007, , 472-481.		0
70	MICCAI. Computer Aided Surgery, 2007, 12, 309-310.	1.8	0