

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 | Reconstructing Binary Signals from Local Histograms. Entropy, 2022, 24, 433. | 1.1 | 2 |
| 2 | How Few Annotations are Needed for Segmentation Using a Multi-planar U-Net?. Lecture Notes in Computer Science, 2021, , 209-216. | 1.0 | 5 |
| 3 | Measuring Shape Relations Using r-Parallel Sets. Journal of Mathematical Imaging and Vision, 2021, 63, 1069-1083. | 0.8 | 3 |
| 4 | Cellular 3D-reconstruction and analysis in the human cerebral cortex using automatic serial sections. Communications Biology, 2021, 4, 1030. | 2.0 | 6 |
| 5 | Comparison of manual and machine learning image processing approaches to determine fungiform papillae on the tongue. Scientific Reports, 2020, 10, 18694. | 1.6 | 6 |
| 6 | Restoring drifted electron microscope volumes using synaptic vesicles at sub-pixel accuracy. Communications Biology, 2020, 3, 81. | 2.0 | 8 |
| 7 | A Novel Approach to Tongue Standardization and Feature Extraction. Lecture Notes in Computer Science, 2020, , 36-45. | 1.0 | 0 |
| 8 | 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 |
| 9 | Using a high-level parallel programming language for GPU-accelerated tomographic reconstruction. , 2019, , . | | 0 |
| 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 | Generalizations of Ripley's K-function with Application to Space Curves. Lecture Notes in Computer Science, 2019, , 731-742. | 1.0 | 3 |
| 12 | 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 |
| 13 | 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 |
| 14 | ESTIMATION OF SAMPLE SPACING IN STOCHASTIC PROCESSES. Image Analysis and Stereology, 2017, 36, 43. | 0.4 | 3 |
| 15 | Combining the boundary shift integral and tensor-based morphometry for brain atrophy estimation. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 16 | Deformation-based atrophy computation by surface propagation and its application to Alzheimer's disease. Journal of Medical Imaging, 2016, 3, 014005. | 0.8 | 0 |
| 17 | Diffeomorphic image registration with automatic time-step adjustment. , 2015, , . | | 0 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Analysis of shape and spatial interaction of synaptic vesicles using data from focused ion beam scanning electron microscopy (FIB-SEM). <i>Frontiers in Neuroanatomy</i> , 2015, 9, 116. | 0.9 | 7 |
| 20 | Image registration using stationary velocity fields parameterized by norm-minimizing Wendland kernel. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 3 |
| 21 | Maurer-Cartan Forms for Fields on Surfaces: Application to Heart Fiber Geometry. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 2492-2504. | 9.7 | 15 |
| 22 | Moving Frames for Heart Fiber Reconstruction. <i>Lecture Notes in Computer Science</i> , 2015, 24, 527-539. | 1.0 | 1 |
| 23 | Photon Differential Splatting for Rendering Caustics. <i>Computer Graphics Forum</i> , 2014, 33, 252-263. | 1.8 | 6 |
| 24 | Analysing the distribution of synaptic vesicles using a spatial point process model. , 2014, , . | | 4 |
| 25 | Estimating the thickness of ultra thin sections for electron microscopy by image statistics. , 2014, , . | | 5 |
| 26 | P1-285: WHITE MATTER HYPOINTENSITY GROWTH RATE CORRELATES WITH RATE OF BRAIN ATROPHY. , 2014, 10, P414-P414. | | 1 |
| 27 | IC-P-131: WHITE MATTER HYPOINTENSITY GROWTH RATE CORRELATES WITH RATE OF BRAIN ATROPHY. , 2014, 10, P75-P76. | | 1 |
| 28 | Stepwise Inverse Consistent Euler's Scheme for Diffeomorphic Image Registration. <i>Lecture Notes in Computer Science</i> , 2014, , 223-230. | 1.0 | 2 |
| 29 | Locally Orderless Registration. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013, 35, 1437-1450. | 9.7 | 19 |
| 30 | Cube propagation for focal brain atrophy estimation. , 2013, , . | | 4 |
| 31 | Automatic measurement of wrist synovitis from contrast-enhanced MRI: a registration-centered approach. , 2013, , . | | 0 |
| 32 | Diffeomorphic Spectral Matching of Cortical Surfaces. <i>Lecture Notes in Computer Science</i> , 2013, 23, 376-389. | 1.0 | 56 |
| 33 | Atlases of Cardiac Fiber Differential Geometry. <i>Lecture Notes in Computer Science</i> , 2013, , 442-449. | 1.0 | 6 |
| 34 | Cardiac Fiber Inpainting Using Cartan Forms. <i>Lecture Notes in Computer Science</i> , 2013, 16, 509-517. | 1.0 | 1 |
| 35 | Moving Frames for Heart Fiber Geometry. <i>Lecture Notes in Computer Science</i> , 2013, 23, 524-535. | 1.0 | 6 |
| 36 | Mass preserving image registration for lung CT. <i>Medical Image Analysis</i> , 2012, 16, 786-795. | 7.0 | 67 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge. IEEE Transactions on Medical Imaging, 2011, 30, 1901-1920. | 5.4 | 363 |
| 39 | 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 |
| 40 | Vessel-guided airway tree segmentation: A voxel classification approach. Medical Image Analysis, 2010, 14, 527-538. | 7.0 | 112 |
| 41 | Anisotropic diffusion tensor applied to temporal mammograms: An application to breast cancer risk assessment. , 2010, 2010, 3178-81. | | 5 |
| 42 | Bayes estimation of shape model with application to vertebrae boundaries. , 2009, , . | | 1 |
| 43 | Mass preserving registration for lung CT. , 2009, , . | | 2 |
| 44 | Airway Tree Extraction with Locally Optimal Paths. Lecture Notes in Computer Science, 2009, 12, 51-58. | 1.0 | 18 |
| 45 | Learning COPD Sensitive Filters in Pulmonary CT. Lecture Notes in Computer Science, 2009, 12, 699-706. | 1.0 | 8 |
| 46 | Bayes Reconstruction of Missing Teeth. Journal of Mathematical Imaging and Vision, 2008, 31, 245-254. | 0.8 | 12 |
| 47 | Guessing Tangents in Normal Flows. Journal of Mathematical Imaging and Vision, 2008, 31, 195-205. | 0.8 | 2 |
| 48 | Special Issue on Tribute Workshop for Peter Johansen. Journal of Mathematical Imaging and Vision, 2008, 31, 119-120. | 0.8 | 0 |
| 49 | Diffusion Based Photon Mapping. Computer Graphics Forum, 2008, 27, 2114-2127. | 1.8 | 13 |
| 50 | MICCAI. Computer Aided Surgery, 2007, 12, 309-310. | 1.8 | 0 |
| 51 | Photon differentials. , 2007, , . | | 25 |
| 52 | Reconstructing Teeth with Bite Information. , 2007, , 102-111. | | 3 |
| 53 | Line-Stepping for Shell Meshes. , 2007, , 472-481. | | 0 |
| 54 | MICCAI. Computer Aided Surgery, 2007, 12, 309-310. | 1.8 | 0 |

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|----|---|-----|-----------|
| 55 | Ballet balance strategies. <i>Simulation Modelling Practice and Theory</i> , 2006, 14, 1135-1142. | 2.2 | 3 |
| 56 | Multi-scale Singularity Trees: Soft-Linked Scale-Space Hierarchies. <i>Lecture Notes in Computer Science</i> , 2005, , 97-106. | 1.0 | 2 |
| 57 | Perceptually relevant and piecewise linear matching of silhouettes. <i>Pattern Recognition</i> , 2005, 38, 75-93. | 5.1 | 12 |
| 58 | A graphical user-interface and an image processing toolkit for Perl. <i>Software - Practice and Experience</i> , 2005, 35, 467-490. | 2.5 | 0 |
| 59 | Transitions of Multi-scale Singularity Trees. <i>Lecture Notes in Computer Science</i> , 2005, , 223-233. | 1.0 | 1 |
| 60 | Virtual trackballs revisited. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2004, 10, 206-216. | 2.9 | 38 |
| 61 | Asymmetry quantization and application to human mandibles. , 2004, , . | | 1 |
| 62 | Growth and motion in three-dimensional medical images. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 697-698. | 5.4 | 0 |
| 63 | Detection and Localization of Random Signals. <i>Lecture Notes in Computer Science</i> , 2003, , 785-797. | 1.0 | 1 |
| 64 | Reconstructing the Optical Thickness from Hoffman Modulation Contrast Images. <i>Lecture Notes in Computer Science</i> , 2003, , 526-533. | 1.0 | 2 |
| 65 | The Visible Ear: A Digital Image Library of the Temporal Bone. <i>Orl</i> , 2002, 64, 378-381. | 0.6 | 47 |
| 66 | 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 |
| 67 | Smoothing images creates corners. <i>Image and Vision Computing</i> , 2000, 18, 261-266. | 2.7 | 5 |
| 68 | Information measures in scale-spaces. <i>IEEE Transactions on Information Theory</i> , 1999, 45, 1051-1058. | 1.5 | 61 |
| 69 | On generalized entropies and scale-space. <i>Lecture Notes in Computer Science</i> , 1997, , 51-64. | 1.0 | 6 |
| 70 | DIRECT ESTIMATION OF FIRST ORDER OPTIC FLOW. , 1995, , 225-238. | | 1 |