Boudewijn P F Lelieveldt

List of Publications by Year
in descending order

228 papers	10,755 citations	50276 46 h-index	43889 91 g-index
246 all docs	246 docs citations	246 times ranked	15541 citing authors

#	Article	IF	Citations
1	Conserved cell types with divergent features in human versus mouse cortex. Nature, 2019, 573, 61-68.	27.8	1,198
2	Eleven grand challenges in single-cell data science. Genome Biology, 2020, 21, 31.	8.8	742
3	An objective comparison of cell-tracking algorithms. Nature Methods, 2017, 14, 1141-1152.	19.0	399
4	Comparative cellular analysis of motor cortex in human, marmoset and mouse. Nature, 2021, 598, 111-119.	27.8	361
5	Fast parallel image registration on CPU and GPU for diagnostic classification of Alzheimer's disease. Frontiers in Neuroinformatics, 2013, 7, 50.	2.5	359
6	3-D active appearance models: segmentation of cardiac MR and ultrasound images. IEEE Transactions on Medical Imaging, 2002, 21, 1167-1178.	8.9	348
7	A new cluster validity index for the fuzzy c-mean. Pattern Recognition Letters, 1998, 19, 237-246.	4.2	337
8	Multistage hybrid active appearance model matching: segmentation of left and right ventricles in cardiac MR images. IEEE Transactions on Medical Imaging, 2001, 20, 415-423.	8.9	290
9	Automatic segmentation of echocardiographic sequences by active appearance motion models. IEEE Transactions on Medical Imaging, 2002, 21, 1374-1383.	8.9	257
10	Approximated and User Steerable tSNE for Progressive Visual Analytics. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 1739-1752.	4.4	213
11	Visual analysis of mass cytometry data by hierarchical stochastic neighbour embedding reveals rare cell types. Nature Communications, 2017, 8, 1740.	12.8	198
12	SPASM: A 3D-ASM for segmentation of sparse and arbitrarily oriented cardiac MRI data. Medical Image Analysis, 2006, 10, 286-303.	11.6	194
13	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	14.8	183
14	Automatic quantification and characterization of coronary atherosclerosis with computed tomography coronary angiography: cross-correlation with intravascular ultrasound virtual histology. International Journal of Cardiovascular Imaging, 2013, 29, 1177-1190.	1.5	178
15	Nonrigid Image Registration Using Multi-scale 3D Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 232-239.	1.3	161
16	Data-driven identification of prognostic tumor subpopulations using spatially mapped t-SNE of mass spectrometry imaging data. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12244-12249.	7.1	154
17	2Dâ€“3D shape reconstruction of the distal femur from stereo X-ray imaging using statistical shape models. Medical Image Analysis, 2011, 15, 840-850.	11.6	139
18	Mass Cytometry of the Human Mucosal Immune System Identifies Tissue- and Disease-Associated Immune Subsets. Immunity, 2016, 44, 1227-1239.	14.3	139

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19	Memory CD4+ T cells are generated in the human fetal intestine. Nature Immunology, 2019, 20, 301-312.	14.5	132
20	Automatic segmentation and plaque characterization in atherosclerotic carotid artery MR images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 16, 227-234.	2.0	127
21	A multiresolution image segmentation technique based on pyramidal segmentation and fuzzy clustering. IEEE Transactions on Image Processing, 2000, 9, 1238-1248.	9.8	126
22	Timing and localization of human dystrophin isoform expression provide insights into the cognitive phenotype of Duchenne muscular dystrophy. Scientific Reports, 2017, 7, 12575.	3.3	123
23	DeepEyes: Progressive Visual Analytics for Designing Deep Neural Networks. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 98-108.	4.4	121
24	Morphological maturation of the mouse brain: An in vivo MRI and histology investigation. NeuroImage, 2016, 125, 144-152.	4.2	120
25	Vortex flow during early and late left ventricular filling in normal subjects: quantitative characterization using retrospectively-gated 4D flow cardiovascular magnetic resonance and three-dimensional vortex core analysis. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 78.	3.3	118
26	Brain maturation of the adolescent rat cortex and striatum: Changes in volume and myelination. NeuroImage, 2014, 84, 35-44.	4.2	113
27	Cytosplore: Interactive Immune Cell Phenotyping for Large Singleâ€Cell Datasets. Computer Graphics Forum, 2016, 35, 171-180.	3.0	108
28	Hierarchical Stochastic Neighbor Embedding. Computer Graphics Forum, 2016, 35, 21-30.	3.0	103
29	Assessment of viscous energy loss and the association with threeâ€dimensional vortex ring formation in left ventricular inflow: In vivo evaluation using fourâ€dimensional flow MRI. Magnetic Resonance in Medicine, 2017, 77, 794-805.	3.0	92
30	High-dimensional cytometric analysis of colorectal cancer reveals novel mediators of antitumour immunity. Gut, 2020, 69, 691-703.	12.1	92
31	Atlas-based whole-body segmentation of mice from low-contrast Micro-CT data. Medical Image Analysis, 2010, 14, 723-737.	11.6	84
32	Fully Automated Motion Correction in First-Pass Myocardial Perfusion MR Image Sequences. IEEE Transactions on Medical Imaging, 2008, 27, 1611-1621.	8.9	79
33	Iron loading is a prominent feature of activated microglia in Alzheimerâ€™s disease patients. Acta Neuropathologica Communications, 2021, 9, 27.	5.2	79
34	Automated Detection of Regional Wall Motion Abnormalities Based on a Statistical Model Applied to Multislice Short-Axis Cardiac MR Images. IEEE Transactions on Medical Imaging, 2009, 28, 595-607.	8.9	77
35	A 3-D Active Shape Model Driven by Fuzzy Inference: Application to Cardiac CT and MR. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 595-605.	3.2	74
36	Mass cytometry reveals innate lymphoid cell differentiation pathways in the human fetal intestine. Journal of Experimental Medicine, 2018, 215, 1383-1396.	8.5	74

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37	Genome-wide coexpression of steroid receptors in the mouse brain: Identifying signaling pathways and functionally coordinated regions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2738-2743.	7.1	73
38	Operator Induced Variability in Cardiovascular MR: Left Ventricular Measurements and Their Reproducibility. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 447-457.	3.3	68
39	Automatic Generic Registration of Mass Spectrometry Imaging Data to Histology Using Nonlinear Stochastic Embedding. Analytical Chemistry, 2014, 86, 9204-9211.	6.5	62
40	Time Continuous Tracking and Segmentation of Cardiovascular Magnetic Resonance Images Using Multidimensional Dynamic Programming. Investigative Radiology, 2006, 41, 52-62.	6.2	61
41	ImaCytE: Visual Exploration of Cellular Micro-Environments for Imaging Mass Cytometry Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 98-110.	4.4	61
42	An Adaptive Intelligence Algorithm for Undersampled Knee MRI Reconstruction. IEEE Access, 2020, 8, 204825-204838.	4.2	59
43	Automatic Registration of Mass Spectrometry Imaging Data Sets to the Allen Brain Atlas. Analytical Chemistry, 2014, 86, 3947-3954.	6.5	58
44	Shared Pathways Among Autism Candidate Genes Determined by Co-expression Network Analysis of the Developing Human Brain Transcriptome. Journal of Molecular Neuroscience, 2015, 57, 580-594.	2.3	54
45	Visualizing the spatial gene expression organization in the brain through non-linear similarity embeddings. Methods, 2015, 73, 79-89.	3.8	54
46	Evaluation of a New Method for Automated Detection of Left Ventricular Boundaries in Time Series of Magnetic Resonance Images Using an Active Appearance Motion Model. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 609-617.	3.3	50
47	A machine learning method for the discovery of minimum marker gene combinations for cell type identification from single-cell RNA sequencing. Genome Research, 2021, 31, 1767-1780.	5.5	50
48	Integrating spatial-anatomical regularization and structure sparsity into SVM: Improving interpretation of Alzheimer's disease classification. NeuroImage, 2018, 178, 445-460.	4.2	49
49	Gene co-expression analysis identifies brain regions and cell types involved in migraine pathophysiology: a GWAS-based study using the Allen Human Brain Atlas. Human Genetics, 2016, 135, 425-439.	3.8	47
50	Hi-C Chromatin Interaction Networks Predict Co-expression in the Mouse Cortex. PLoS Computational Biology, 2015, 11, e1004221.	3.2	45
51	Fuzzy feature selection. Pattern Recognition, 1999, 32, 2011-2019.	8.1	44
52	Anatomical model matching with fuzzy implicit surfaces for segmentation of thoracic volume scans. IEEE Transactions on Medical Imaging, 1999, 18, 218-230.	8.9	43
53	Statistical coronary motion models for 2D+t/3D registration of X-ray coronary angiography and CTA. Medical Image Analysis, 2013, 17, 698-709.	11.6	42
54	Tissue characterization with depth-resolved attenuation coefficient and backscatter term in intravascular optical coherence tomography images. Journal of Biomedical Optics, 2017, 22, 1.	2.6	42

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55	GPGPU Linear Complexity t-SNE Optimization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1172-1181.	4.4	40
56	Automated Observer-independent Acquisition of Cardiac Short-Axis MR Images: A Pilot Study. Radiology, 2001, 221, 537-542.	7.3	39
57	Optimal design of radial basis function neural networks for fuzzy-rule extraction in high dimensional data. Pattern Recognition, 2002, 35, 659-675.	8.1	39
58	Heterogeneity of circulating CD8 T-cells specific to islet, neo-antigen and virus in patients with type 1 diabetes mellitus. PLoS ONE, 2018, 13, e0200818.	2.5	38
59	Characterization and Evaluation of the Artemis Camera for Fluorescence-Guided Cancer Surgery. Molecular Imaging and Biology, 2015, 17, 413-423.	2.6	37
60	Interactive Visual Exploration of 3D Mass Spectrometry Imaging Data Using Hierarchical Stochastic Neighbor Embedding Reveals Spatiomolecular Structures at Full Data Resolution. Journal of Proteome Research, 2018, 17, 1054-1064.	3.7	37
61	Automatic vessel wall contour detection and quantification of wall thickness in in-vivo MR images of the human aorta. Journal of Magnetic Resonance Imaging, 2006, 24, 595-602.	3.4	36
62	EpCAM as multi-tumour target for near-infrared fluorescence guided surgery. BMC Cancer, 2016, 16, 884.	2.6	36
63	Fast Automatic Step Size Estimation for Gradient Descent Optimization of Image Registration. IEEE Transactions on Medical Imaging, 2016, 35, 391-403.	8.9	36
64	Computer-aided diagnosis via model-based shape analysis. Academic Radiology, 2005, 12, 358-367.	2.5	34
65	Evaluation of automated statistical shape model based knee kinematics from biplane fluoroscopy. Journal of Biomechanics, 2014, 47, 122-129.	2.1	34
66	Cardiac MR perfusion image processing techniques: A survey. Medical Image Analysis, 2012, 16, 767-785.	11.6	33
67	Helminth infections drive heterogeneity in human type 2 and regulatory cells. Science Translational Medicine, 2020, 12, .	12.4	33
68	An Integrated Automated Analysis Method for Quantifying Vessel Stenosis and Plaque Burden From Carotid MRI Images. Stroke, 2006, 37, 2162-2164.	2.0	32
69	Optical Mammography Using Diffuse Optical Spectroscopy for Monitoring Tumor Response to Neoadjuvant Chemotherapy in Women with Locally Advanced Breast Cancer. Clinical Cancer Research, 2015, 21, 577-584.	7.0	32
70	Optical advances in skeletal imaging applied to bone metastases. Bone, 2011, 48, 106-114.	2.9	30
71	Automated contour detection in X-ray left ventricular angiograms using multiview active appearance models and dynamic programming. IEEE Transactions on Medical Imaging, 2006, 25, 1158-1171.	8.9	29
72	Articulated Whole-Body Atlases for Small Animal Image Analysis: Construction and Applications. Molecular Imaging and Biology, 2011, 13, 898-910.	2.6	29

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73	BrainScope: interactive visual exploration of the spatial and temporal human brain transcriptome. Nucleic Acids Research, 2017, 45, gkx046.	14.5	29
74	Automatic identification of coronary tree anatomy in coronary computed tomography angiography. International Journal of Cardiovascular Imaging, 2017, 33, 1809-1819.	1.5	29
75	Quantitative error prediction of medical image registration using regression forests. Medical Image Analysis, 2019, 56, 110-121.	11.6	28
76	Independent component analysis in statistical shape models. , 2003, , .		27
77	Automated Ischemic Lesion Segmentation in MRI Mouse Brain Data after Transient Middle Cerebral Artery Occlusion. Frontiers in Neuroinformatics, 2017, 11, 3.	2.5	27
78	Noninvasive Detection of Metastases and Follicle Density in Ovarian Tissue Using Full-Field Optical Coherence Tomography. Clinical Cancer Research, 2016, 22, 5506-5513.	7.0	26
79	Detection of Conversion from Mild Cognitive Impairment to Alzheimer's Disease Using Longitudinal Brain MRI. Frontiers in Neuroinformatics, 2017, 11, 16.	2.5	26
80	Time-Continuous Segmentation of Cardiac Image Sequences Using Active Appearance Motion Models. Lecture Notes in Computer Science, 2001, , 446-452.	1.3	26
81	Neuro-fuzzy systems for computer-aided myocardial viability assessment. IEEE Transactions on Medical Imaging, 2001, 20, 1302-1313.	8.9	24
82	Systems analysis and controlled malaria infection in Europeans and Africans elucidate naturally acquired immunity. Nature Immunology, 2021, 22, 654-665.	14.5	24
83	Fully-automatic left ventricular segmentation from long-axis cardiac cine MR scans. Medical Image Analysis, 2017, 39, 44-55.	11.6	23
84	CyTOFmerge: integrating mass cytometry data across multiple panels. Bioinformatics, 2019, 35, 4063-4071.	4.1	23
85	Automated Registration of Whole-Body Follow-Up MicroCT Data of Mice. Lecture Notes in Computer Science, 2011, 14, 516-523.	1.3	23
86	Articulated Planar Reformation for Change Visualization in Small Animal Imaging. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 1396-1404.	4.4	22
87	Multi-view active appearance models for consistent segmentation of multiple standard views: application to long- and short-axis cardiac MR images. International Congress Series, 2003, 1256, 1141-1146.	0.2	21
88	Regression-Based Cardiac Motion Prediction From Single-Phase CTA. IEEE Transactions on Medical Imaging, 2012, 31, 1311-1325.	8.9	21
89	Statistical Shape Model-Based Femur Kinematics From Biplane Fluoroscopy. IEEE Transactions on Medical Imaging, 2012, 31, 1573-1583.	8.9	21
90	Automatic quantification of bone marrow edema on <scp>MRI</scp> of the wrist in patients with early arthritis: A feasibility study. Magnetic Resonance in Medicine, 2018, 79, 1127-1134.	3.0	21

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91	Toward optical guidance during endoscopic ultrasound-guided fine needle aspirations of pancreatic masses using single fiber reflectance spectroscopy: a feasibility study. Journal of Biomedical Optics, 2017, 22, 024001.	2.6	20
92	CyteGuide: Visual Guidance for Hierarchical Single-Cell Analysis. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 739-748.	4.4	20
93	Deep Learning for Quantitative Cardiac MRI. American Journal of Roentgenology, 2020, 214, 529-535.	2.2	20
94	FULLY AUTOMATED WHOLE-BODY REGISTRATION IN MICE USING AN ARTICULATED SKELETON ATLAS. , 2007, , .		19
95	Brain transcriptome atlases: a computational perspective. Brain Structure and Function, 2017, 222, 1557-1580.	2.3	19
96	<title>Segmentation of cardiac MR images: an active appearance model approach</title>. , 2000, 3979, 224.		18
97	Multiview Active Appearance Models for Simultaneous Segmentation of Cardiac 2- and 4-Chamber Long-Axis Magnetic Resonance Images. Investigative Radiology, 2005, 40, 195-203.	6.2	18
98	Fully Automatic Registration and Segmentation of First-Pass Myocardial Perfusion MR Image Sequences. Academic Radiology, 2010, 17, 1375-1385.	2.5	18
99	Automated registration of multispectral MR vessel wall images of the carotid artery. Medical Physics, 2013, 40, 121904.	3.0	18
100	Additional Diagnostic Value of Integrated Analysis of Cardiac CTA and SPECT MPI Using the SMARTVis System in Patients with Suspected Coronary Artery Disease. Journal of Nuclear Medicine, 2014, 55, 50-57.	5.0	18
101	Semiâ€automated background removal limits data loss and normalizes imaging mass cytometry data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2021, 99, 1187-1197.	1.5	18
102	Validation of full-field optical coherence tomography in distinguishing malignant and benign tissue in resected pancreatic cancer specimens. PLoS ONE, 2017, 12, e0175862.	2.5	18
103	<title>Time-continuous segmentation of cardiac MR image sequences using active appearance motion models</title>. , 2001, , .		17
104	A novel software tool for semi-automatic quantification of thoracic aorta dilatation on baseline and follow-up computed tomography angiography. International Journal of Cardiovascular Imaging, 2019, 35, 711-723.	1.5	17
105	Quantification of Global and Regional Ventricular Function in Cardiac Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2000, 11, 348-358.	1.2	16
106	Model driven quantification of left ventricular function from sparse single-beat 3D echocardiography. Medical Image Analysis, 2010, 14, 582-593.	11.6	16
107	Repeatability of in vivo quantification of atherosclerotic carotid artery plaque components by supervised multispectral classification. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 535-545.	2.0	16
108	Accuracy Estimation for Medical Image Registration Using Regression Forests. Lecture Notes in Computer Science, 2016, , 107-115.	1.3	16

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109	Anatomical Modeling with Fuzzy Implicit Surface Templates: Application to Automated Localization of the Heart and Lungs in Thoracic MR Volumes. Computer Vision and Image Understanding, 2000, 80, 1-20.	4.7	15
110	Early-Life Compartmentalization of Immune Cells in Human Fetal Tissues Revealed by High-Dimensional Mass Cytometry. Frontiers in Immunology, 2019, 10, 1932.	4.8	15
111	Super-resolution reconstruction of late gadolinium-enhanced MRI for improved myocardial scar assessment. Journal of Magnetic Resonance Imaging, 2015, 42, 160-167.	3.4	14
112	<title>Active appearance motion models for endocardial contour detection in time sequences of echocardiograms</title>. , 2001, , .		13
113	Automated Contour Detection in Cardiac MRI Using Active Appearance Models. Investigative Radiology, 2007, 42, 697-703.	6.2	13
114	Automated Bone Volume and Thickness Measurements in Small Animal Whole-Body MicroCT Data. Molecular Imaging and Biology, 2012, 14, 420-430.	2.6	13
115	An Efficient Preconditioner for Stochastic Gradient Descent Optimization of Image Registration. IEEE Transactions on Medical Imaging, 2019, 38, 2314-2325.	8.9	13
116	Visual cohort comparison for spatial single-cell omics-data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 733-743.	4.4	13
117	Segmentation of cardiac MR volume data using 3D active appearance models. , 2002, , .		12
118	Accuracy of short-axis cardiac MRI automatically derived from scout acquisitions in free-breathing and breath-holding modes. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2005, 18, 7-18.	2.0	12
119	Organ approximation in μCT data with low soft tissue contrast using an articulated whole-body atlas. , 2008, , .		12
120	Comprehensive visualization of multimodal cardiac imaging data for assessment of coronary artery disease: first clinical results of the SMARTVis tool. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 557-571.	2.8	12
121	Quantification of aortic annulus in computed tomography angiography: Validation of a fully automatic methodology. European Journal of Radiology, 2017, 93, 1-8.	2.6	12
122	Multiscale Visualization and Exploration of Large Bipartite Graphs. Computer Graphics Forum, 2018, 37, 549-560.	3.0	12
123	2D/3D registration of micro-CT data to multi-view photographs based on a 3D distance map. , 2009, , .		11
124	Segmentation of branching vascular structures using adaptive subdivision surface fitting. Proceedings of SPIE, 2015, , .	0.8	11
125	Respiratory motion estimation in x-ray angiography for improved guidance during coronary interventions. Physics in Medicine and Biology, 2015, 60, 3617-3637.	3.0	11
126	Interâ€station intensity standardization for wholeâ€body <scp>MR</scp> data. Magnetic Resonance in Medicine, 2017, 77, 422-433.	3.0	11

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127	Quantification of aortic pulse wave velocity from a population based cohort: a fully automatic method. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 27.	3.3	11
128	Hierarchical Prediction of Registration Misalignment Using a Convolutional LSTM: Application to Chest CT Scans. IEEE Access, 2021, 9, 62008-62020.	4.2	11
129	Segmentation and Visual Analysis of Whole-Body Mouse Skeleton microSPECT. PLoS ONE, 2012, 7, e48976.	2.5	11
130	Fully Automated 3D Vestibular Schwannoma Segmentation with and without Gadolinium-based Contrast Material: A Multicenter, Multivendor Study. Radiology: Artificial Intelligence, 2022, 4, .	5.8	11
131	Automated algorithm for reconstruction of the complete spine from multistation 7T MR data. Magnetic Resonance in Medicine, 2013, 69, 1777-1786.	3.0	10
132	Left Ventricle Segmentation from Contrast Enhanced Fast Rotating Ultrasound Images Using Three Dimensional Active Shape Models. Lecture Notes in Computer Science, 2009, , 295-302.	1.3	10
133	MRI Mouse Brain Data of Ischemic Lesion after Transient Middle Cerebral Artery Occlusion. Frontiers in Neuroinformatics, 2017, 11, 51.	2.5	9
134	Co-expression Patterns between ATN1 and ATXN2 Coincide with Brain Regions Affected in Huntingtonâ€™s Disease. Frontiers in Molecular Neuroscience, 2017, 10, 399.	2.9	9
135	Conditional Shape Models for Cardiac Motion Estimation. Lecture Notes in Computer Science, 2010, 13, 452-459.	1.3	9
136	Confidence of model based shape reconstruction from sparse data. , 2010, , .		8
137	Automated regional wall motion abnormality detection by combining rest and stress cardiac MRI: Correlation with contrastâ€enhanced MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 270-278.	3.4	8
138	Automated extraction and labelling of the arterial tree from whole-body MRA data. Medical Image Analysis, 2015, 24, 28-40.	11.6	8
139	Left ventricle contour detection in x-ray angiograms using multi-view active appearance models. , 2003, 5032, 394.		7
140	Automatic plaque characterization and vessel wall segmentation in magnetic resonance images of atherosclerotic carotid arteries. , 2004, , .		7
141	Atlas-driven scan planning for high-resolution micro-SPECT data acquisition based on multi-view photographs: a pilot study. , 2009, , .		7
142	Fully Automated Attenuation Measurement and Motion Correction in FLIP Image Sequences. IEEE Transactions on Medical Imaging, 2012, 31, 461-473.	8.9	7
143	Multidimensional analyses of proinsulin peptide-specific regulatory T cells induced by tolerogenic dendritic cells. Journal of Autoimmunity, 2020, 107, 102361.	6.5	7
144	Fully automated endocardial contour detection in time sequences of echocardiograms by three-dimensional active appearance models. , 2002, , .		7

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145	Comparison of Shape Regression Methods under Landmark Position Uncertainty. Lecture Notes in Computer Science, 2011, 14, 434-441.	1.3	7
146	Identification of a Disease-Associated Network of Intestinal Immune Cells in Treatment-Naive Inflammatory Bowel Disease. Frontiers in Immunology, 0, 13, .	4.8	7
147	Time continuous segmentation of cardiac MR images using Active Appearance Motion Models. International Congress Series, 2001, 1230, 961-966.	0.2	6
148	Active appearance motion model segmentation. , 0, , .		6
149	Automated Short-Axis Cardiac Magnetic Resonance Image Acquisitions. Investigative Radiology, 2004, 39, 747-755.	6.2	6
150	SPASM: Segmentation of Sparse and Arbitrarily Oriented Cardiac MRI Data Using a 3D-ASM. Lecture Notes in Computer Science, 2005, , 33-43.	1.3	6
151	Integrated visualization of multi-angle bioluminescence imaging and micro CT. , 2007, , .		6
152	A structural equation model for imaging genetics using spatial transcriptomics. Brain Informatics, 2018, 5, 13.	3.0	6
153	Computer-aided diagnosis via model-based shape analysis: cardiac MR and echo. International Congress Series, 2003, 1256, 1013-1018.	0.2	5
154	Automated Segmentation of X-ray Left Ventricular Angiograms Using Multi-View Active Appearance Models and Dynamic Programming. Lecture Notes in Computer Science, 2005, , 23-32.	1.3	5
155	Comparative exploration of whole-body MR through locally rigid transforms. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 635-647.	2.8	5
156	Fluorescence lifetime imaging to differentiate bound from unbound ICG-cRGD bothin vitroandin vivo. Proceedings of SPIE, 2015, , .	0.8	5
157	Analysis and compensation for the effect of the catheter position on image intensities in intravascular optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 126005.	2.6	5
158	Focus+Context Exploration of Hierarchical Embeddings. Computer Graphics Forum, 2019, 38, 569-579.	3.0	5
159	Evaluation of an Open Source Registration Package for Automatic Contour Propagation in Online Adaptive Intensity-Modulated Proton Therapy of Prostate Cancer. Frontiers in Oncology, 2019, 9, 1297.	2.8	5
160	A Stochastic Quasi-Newton Method for Non-Rigid Image Registration. Lecture Notes in Computer Science, 2015, , 297-304.	1.3	5
161	Active Appearanceâ€“Motion Models for fully automated endocardial contour detection in time sequences of echocardiograms. International Congress Series, 2001, 1230, 941-947.	0.2	4
162	Fully automated endocardial contour detection in time sequences of echocardiograms by active appearance motion models. , 0, , .		4

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163	Myocardium extraction in positron emission tomography based on soft computing. Computerized Medical Imaging and Graphics, 2001, 25, 277-286.	5.8	4
164	Information Processing in Medical Imaging 2007. Medical Image Analysis, 2008, 12, 729-730.	11.6	4
165	Automated left ventricular delineation in X-ray angiograms: A validation study. Catheterization and Cardiovascular Interventions, 2009, 73, 231-240.	1.7	4
166	Correspondence free 3D statistical shape model fitting to sparse x-ray projections. , 2010, , .		4
167	Atlas-based organ & bone approximation for ex-vivo μMRI mouse data: A pilot study. , 2010, , .		4
168	Super-resolution reconstruction of whole-body MRI mouse data: An interactive approach. , 2012, , .		4
169	Model-based alignment of Look-Locker MRI sequences for calibrated myocardical scar tissue quantification. , 2013, , .		4
170	A model-guided method for improving coronary artery tree extractions from CCTA images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 373-383.	2.8	4
171	Automatic coronary artery plaque thickness comparison between baseline and followâ€up CCTA images. Medical Physics, 2020, 47, 1083-1093.	3.0	4
172	3D Model-Based Approach to Lung Registration and Prediction of Respiratory Cardiac Motion. Lecture Notes in Computer Science, 2005, 8, 951-959.	1.3	4
173	Robust Motion Correction in the Frequency Domain of Cardiac MR Stress Perfusion Sequences. Lecture Notes in Computer Science, 2012, 15, 667-674.	1.3	4
174	SCHNEL: scalable clustering of high dimensional single-cell data. Bioinformatics, 2020, 36, i849-i856.	4.1	4
175	A virtual exploring mobile robot for left ventricle contour tracking. , 0, , .		3
176	Automated classification of wall motion abnormalities by principal component analysis of endocardial shape motion patterns in echocardiograms. , 2003, , .		3
177	Three-dimensional active shape model matching for left ventricle segmentation in cardiac CT. , 2003, , .		3
178	Influence of positional and angular variation of automatically planned short-axis stacks on quantification of left ventricular dimensions and function with cardiovascular magnetic resonance. Journal of Magnetic Resonance Imaging, 2005, 22, 754-764.	3.4	3
179	Statistical Modeling and Segmentation in Cardiac MRI Using a Grid Computing Approach. Lecture Notes in Computer Science, 2005, , 6-15.	1.3	3
180	Analysis of first-pass myocardial perfusion MRI using independent component analysis. , 2006, 6144, 596.		3

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181	Fully automatic estimation of object pose for segmentation initialization: application to cardiac MR and echocardiography images. , 2007, 6512, 1196.		3
182	Model driven quantification of left ventricular function from sparse single-beat 3D echocardiography. Proceedings of SPIE, 2009, , .	0.8	3
183	Evaluation of the Robustness of Learned MR Image Reconstruction to Systematic Deviations Between Training and Test Data for the Models from the fastMRI Challenge. Lecture Notes in Computer Science, 2021, , 25-34.	1.3	3
184	Joint Intensity Inhomogeneity Correction for Whole-Body MR Data. Lecture Notes in Computer Science, 2013, 16, 106-113.	1.3	3
185	Interactive Local Super-Resolution Reconstruction of Whole-Body MRI Mouse Data: A Pilot Study with Applications to Bone and Kidney Metastases. PLoS ONE, 2014, 9, e108730.	2.5	3
186	Deep Recursive Embedding for High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1237-1248.	4.4	3
187	Disease characterization of active appearance model coefficients. , 2003, , .		2
188	CT-based handling and analysis of preclinical multimodality imaging data of bone metastases. BoneKEy Reports, 2012, 1, 79.	2.7	2
189	Deformation texture-based features for classification in Alzheimer's disease. , 2013, , .		2
190	A visualization platform for high-throughput, follow-up, co-registered multi-contrast MRI rat brain data. , 2013, , .		2
191	Fast automatic estimation of the optimization step size for nonrigid image registration. , 2014, , .		2
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