

Ron Kikinis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1066040/publications.pdf>

Version: 2024-02-01

290
papers

35,214
citations

4960

84
h-index

3914

177
g-index

302
all docs

302
docs citations

302
times ranked

32260
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Digital Reconstruction of the Cerebellar Cortex: Lobule Thickness, Surface Area Measurements, and Layer Architecture. Cerebellum, 2023, 22, 249-260.	2.5	9
2	Computer simulation of tumour <scp>resection–induced</scp> brain deformation by a meshless approach. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3539.	2.1	4
3	Surgical data science “ from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	11.6	107
4	Automatic framework for patient-specific modelling of tumour resection-induced brain shift. Computers in Biology and Medicine, 2022, 143, 105271.	7.0	4
5	Somatotopic Organization of Hyperdirect Pathway Projections From the Primary Motor Cortex in the Human Brain. Frontiers in Neurology, 2022, 13, 791092.	2.4	1
6	Superficial white matter microstructure affects processing speed in cerebral small vessel disease. Human Brain Mapping, 2022, 43, 5310-5325.	3.6	3
7	Automatic Framework for Patient-Specific Biomechanical Computations of Organ Deformation. , 2021, , 3-16.		1
8	Ultrasound-guided needle placement system optimized for translation to Mauritania. , 2021, , .		0
9	Development of an open-source system for prostate biopsy training in Senegal. , 2021, , .		0
10	MRI-based radiomic feature analysis of end-stage liver disease for severity stratification. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 457-466.	2.8	8
11	Comparison of multiple tractography methods for reconstruction of the retinogeniculate visual pathway using diffusion MRI. Human Brain Mapping, 2021, 42, 3887-3904.	3.6	21
12	NCI Imaging Data Commons. Cancer Research, 2021, 81, 4188-4193.	0.9	28
13	Design of an Ultrasound-Navigated Prostate Cancer Biopsy System for Nationwide Implementation in Senegal. Journal of Imaging, 2021, 7, 154.	3.0	0
14	Artificial intelligence to assess body composition on routine abdominal CT scans and predict mortality in pancreatic cancer“ A recipe for your local application. European Journal of Radiology, 2021, 142, 109834.	2.6	24
15	Open Source Platform for Transperineal In-Bore MRI-Guided Targeted Prostate Biopsy. IEEE Transactions on Biomedical Engineering, 2020, 67, 565-576.	4.2	0
16	3D Exploration of the Brainstem in 50-Micron Resolution MRI. Frontiers in Neuroanatomy, 2020, 14, 40.	1.7	13
17	Enhanced registration of ultrasound volumes by segmentation of resection cavity in neurosurgical procedures. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1963-1974.	2.8	5
18	DICOM re“encoding of volumetrically annotated Lung Imaging Database Consortium (LIDC) nodules. Medical Physics, 2020, 47, 5953-5965.	3.0	8

#	ARTICLE	IF	CITATIONS
19	Human Cochlear Nucleus on 7 Tesla Diffusion Tensor Imaging: Insights Into Micro-anatomy and Function for Auditory Brainstem Implant Surgery. <i>Otology and Neurotology</i> , 2020, 41, e484-e493.	1.3	7
20	Quantitative Imaging Informatics for Cancer Research. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 444-453.	2.1	11
21	Detection of Brain Metastases with Deep Learning Single-Shot Detector Algorithms. <i>Radiology</i> , 2020, 295, 416-417.	7.3	5
22	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 299-309.	2.1	52
23	Creation of a novel trigeminal tractography atlas for automated trigeminal nerve identification. <i>NeuroImage</i> , 2020, 220, 117063.	4.2	17
24	Anatomical assessment of trigeminal nerve tractography using diffusion MRI: A comparison of acquisition b-values and single- and multi-fiber tracking strategies. <i>NeuroImage: Clinical</i> , 2020, 25, 102160.	2.7	25
25	Adaptive Physics-Based Non-Rigid Registration for Immersive Image-Guided Neuronavigation Systems. <i>Frontiers in Digital Health</i> , 2020, 2, 613608.	2.8	5
26	Deep Learning Methodology for Differentiating Glioma Recurrence From Radiation Necrosis Using Multimodal Magnetic Resonance Imaging: Algorithm Development and Validation. <i>JMIR Medical Informatics</i> , 2020, 8, e19805.	2.6	15
27	Put That Needle There. <i>ACM Transactions on Computing for Healthcare</i> , 2020, 1, 1-17.	5.0	3
28	Biomechanical modeling and computer simulation of the brain during neurosurgery. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3250.	2.1	20
29	MRI Atlas of the Human Deep Brain. <i>Frontiers in Neurology</i> , 2019, 10, 851.	2.4	8
30	Segmentation-based registration of ultrasound volumes for glioma resection in image-guided neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1697-1713.	2.8	19
31	Fully automatic catheter segmentation in MRI with 3D convolutional neural networks: application to MRI-guided gynecologic brachytherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 165008.	3.0	47
32	Repeatability of Multiparametric Prostate MRI Radiomics Features. <i>Scientific Reports</i> , 2019, 9, 9441.	3.3	169
33	Auditory Display for Telerobotic Transnasal Surgery Using a Continuum Robot. <i>Journal of Medical Robotics Research</i> , 2019, 04, 1950004.	1.2	3
34	Uncertainty-aware asynchronous scattered motion interpolation using Gaussian process regression. <i>Computerized Medical Imaging and Graphics</i> , 2019, 72, 1-12.	5.8	0
35	Automatic and efficient MRI-US segmentations for improving intraoperative image fusion in image-guided neurosurgery. <i>NeuroImage: Clinical</i> , 2019, 22, 101766.	2.7	15
36	Selection of Fitting Model and Arterial Input Function for Repeatability in Dynamic Contrast-Enhanced Prostate MRI. <i>Academic Radiology</i> , 2019, 26, e241-e251.	2.5	12

#	ARTICLE	IF	CITATIONS
37	Automatic Needle Segmentation and Localization in MRI With 3-D Convolutional Neural Networks: Application to MRI-Targeted Prostate Biopsy. IEEE Transactions on Medical Imaging, 2019, 38, 1026-1036.	8.9	42
38	Multimodal image registration for liver radioembolization planning and patient assessment. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 215-225.	2.8	11
39	Multimodal Image-Based Virtual Reality Presurgical Simulation and Evaluation for Trigeminal Neuralgia and Hemifacial Spasm. World Neurosurgery, 2018, 113, e499-e507.	1.3	23
40	Auditory display for fluorescence-guided open brain tumor surgery. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 25-35.	2.8	5
41	Auditory display as feedback for a novel eye-tracking system for sterile operating room interaction. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 37-45.	2.8	7
42	Train the Trainers: Medical Technology for the Sustainable Development of Africa. , 2018, , .		2
43	An annotated test-retest collection of prostate multiparametric MRI. Scientific Data, 2018, 5, 180281.	5.3	26
44	Interaction with Volume-Rendered Three-Dimensional Echocardiographic Images in Virtual Reality. Journal of the American Society of Echocardiography, 2018, 31, 1158-1160.	2.8	16
45	Psychoacoustical Interactive Sonification for Short Range Navigation. Acta Acustica United With Acustica, 2018, 104, 1075-1093.	0.8	9
46	Implementing the DICOM Standard for Digital Pathology. Journal of Pathology Informatics, 2018, 9, 37.	1.7	93
47	Development of a surgical navigation system based on 3D Slicer for intraoperative implant placement surgery. Medical Engineering and Physics, 2017, 41, 81-89.	1.7	31
48	Surgical data science for next-generation interventions. Nature Biomedical Engineering, 2017, 1, 691-696.	22.5	283
49	<i>dcmqi</i>: An Open Source Library for Standardized Communication of Quantitative Image Analysis Results Using DICOM. Cancer Research, 2017, 77, e87-e90.	0.9	31
50	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. Cancer Research, 2017, 77, e101-e103.	0.9	89
51	Auditory feedback to support image-guided medical needle placement. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1655-1663.	2.8	25
52	Instrument-mounted displays for reducing cognitive load during surgical navigation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1599-1605.	2.8	20
53	A Survey of auditory display in image-guided interventions. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1665-1676.	2.8	29
54	The Open Anatomy Browser: A Collaborative Web-Based Viewer for Interoperable Anatomy Atlases. Frontiers in Neuroinformatics, 2017, 11, 22.	2.5	18

#	ARTICLE	IF	CITATIONS
55	Optimized positioning of autonomous surgical lamps. Proceedings of SPIE, 2017, , .	0.8	1
56	Cross-View Neuroimage Pattern Analysis in Alzheimer's Disease Staging. Frontiers in Aging Neuroscience, 2016, 8, 23.	3.4	11
57	Increasing the impact of medical image computing using community-based open-access hackathons: The NA-MIC and 3D Slicer experience. Medical Image Analysis, 2016, 33, 176-180.	11.6	58
58	Large Scale Cloud-Based Deformable Registration for Image Guided Therapy. , 2016, , .		0
59	The white matter query language: a novel approach for describing human white matter anatomy. Brain Structure and Function, 2016, 221, 4705-4721.	2.3	170
60	Biomechanical model for computing deformations for whole-body image registration: A meshless approach. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02771.	2.1	18
61	Bolus arrival time and its effect on tissue characterization with dynamic contrast-enhanced magnetic resonance imaging. Journal of Medical Imaging, 2016, 3, 014503.	1.5	10
62	Dictionary pruning with visual word significance for medical image retrieval. Neurocomputing, 2016, 177, 75-88.	5.9	27
63	Pairwise Latent Semantic Association for Similarity Computation in Medical Imaging. IEEE Transactions on Biomedical Engineering, 2016, 63, 1058-1069.	4.2	19
64	Using 3D Modeling Techniques to Enhance Teaching of Difficult Anatomical Concepts. Academic Radiology, 2016, 23, 507-516.	2.5	82
65	In vivo Exploration of the Connectivity between the Subthalamic Nucleus and the Globus Pallidus in the Human Brain Using Multi-Fiber Tractography. Frontiers in Neuroanatomy, 2016, 10, 119.	1.7	16
66	DICOM for quantitative imaging biomarker development: a standards based approach to sharing clinical data and structured PET/CT analysis results in head and neck cancer research. PeerJ, 2016, 4, e2057.	2.0	67
67	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	2.0	147
68	Longitudinal brain MR retrieval with diffeomorphic demons registration: What happened to those patients with similar changes?. , 2015, , .		11
69	Multimodal neuroimaging computing: a review of the applications in neuropsychiatric disorders. Brain Informatics, 2015, 2, 167-180.	3.0	115
70	Subject-centered multi-view feature fusion for neuroimaging retrieval and classification. , 2015, , .		2
71	Patient-specific biomechanical model as whole-body CT image registration tool. Medical Image Analysis, 2015, 22, 22-34.	11.6	18
72	Role of Computers and Image Processing in Image-Guided Brain Tumor Surgery. , 2015, , 143-161.		2

#	ARTICLE	IF	CITATIONS
73	Multimodal Neuroimaging Feature Learning for Multiclass Diagnosis of Alzheimer's Disease. IEEE Transactions on Biomedical Engineering, 2015, 62, 1132-1140.	4.2	432
74	Multimodal neuroimaging computing: the workflows, methods, and platforms. Brain Informatics, 2015, 2, 181-195.	3.0	22
75	Widespread white matter degeneration preceding the onset of dementia. Alzheimer's and Dementia, 2015, 11, 485.	0.8	67
76	Content-Based Retrieval of Brain Diffusion Magnetic Resonance Image. Lecture Notes in Computer Science, 2015, , 54-60.	1.3	4
77	Multi-Phase Feature Representation Learning for Neurodegenerative Disease Diagnosis. Lecture Notes in Computer Science, 2015, , 350-359.	1.3	5
78	Robust Radiomics Feature Quantification Using Semiautomatic Volumetric Segmentation. PLoS ONE, 2014, 9, e102107.	2.5	488
79	Latent Semantic Association for Medical Image Retrieval. , 2014, , .		2
80	More accurate neuronavigation data provided by biomechanical modeling instead of rigid registration. Journal of Neurosurgery, 2014, 120, 1477-1483.	1.6	37
81	A 3D difference-of-Gaussian-based lesion detector for brain PET. , 2014, , .		11
82	Propagation graph fusion for multi-modal medical content-based retrieval. , 2014, , .		10
83	Application of Tolerance Limits to the Characterization of Image Registration Performance. IEEE Transactions on Medical Imaging, 2014, 33, 1541-1550.	8.9	3
84	Co-neighbor multi-view spectral embedding for medical content-based retrieval. , 2014, , .		9
85	MRI brain tumor segmentation and necrosis detection using adaptive Sobolev snakes. Proceedings of SPIE, 2014, 9034, 903442.	0.8	7
86	Mutual information as a measure of image quality for 3D dynamic lung imaging with EIT. Physiological Measurement, 2014, 35, 863-879.	2.1	23
87	Variations of Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Evaluation of Breast Cancer Therapy Response: A Multicenter Data Analysis Challenge. Translational Oncology, 2014, 7, 153-166.	3.7	120
88	Early diagnosis of Alzheimer's disease with deep learning. , 2014, , .		273
89	Diffusion tensor imaging study of the fornix in first episode schizophrenia and in healthy controls. Schizophrenia Research, 2014, 156, 157-160.	2.0	23
90	Multi-Channel neurodegenerative pattern analysis and its application in Alzheimer's disease characterization. Computerized Medical Imaging and Graphics, 2014, 38, 436-444.	5.8	27

#	ARTICLE	IF	CITATIONS
91	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. Translational Oncology, 2014, 7, 65-71.	3.7	51
92	Systemic chemotherapy decreases brain glucose metabolism. Annals of Clinical and Translational Neurology, 2014, 1, 788-798.	3.7	27
93	3D Slicer: A Platform for Subject-Specific Image Analysis, Visualization, and Clinical Support. , 2014, , 277-289.		557
94	Patient-Specific Meshless Model for Whole-Body Image Registration. Lecture Notes in Computer Science, 2014, , 50-57.	1.3	5
95	Biomechanical Model as a Registration Tool for Image-Guided Neurosurgery: Evaluation Against BSpline Registration. Annals of Biomedical Engineering, 2013, 41, 2409-2425.	2.5	34
96	Genetic contributions to changes of fiber tracts of ventral visual stream in 22q11.2 deletion syndrome. Brain Imaging and Behavior, 2013, 7, 316-325.	2.1	22
97	Extended Broca's Area in the Functional Connectome of Language in Adults: Combined Cortical and Subcortical Single-Subject Analysis Using fMRI and DTI Tractography. Brain Topography, 2013, 26, 428-441.	1.8	51
98	Forward and inverse electroencephalographic modeling in health and in acute traumatic brain injury. Clinical Neurophysiology, 2013, 124, 2129-2145.	1.5	29
99	Robust Applicator Registration for Interstitial Gynecologic Brachytherapy. Brachytherapy, 2013, 12, S53.	0.5	2
100	High-resolution electroencephalographic forward modeling in traumatic brain injury using the finite element method. , 2013, , .		1
101	Computed Tomographic Measures of Pulmonary Vascular Morphology in Smokers and Their Clinical Implications. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 231-239.	5.6	188
102	GBM Volumetry using the 3D Slicer Medical Image Computing Platform. Scientific Reports, 2013, 3, 1364.	3.3	185
103	Localized Sparse Code Gradient in Alzheimer's disease staging. , 2013, 2013, 5398-401.		8
104	Towards improved ultrasound-based analysis and 3D visualization of the fetal brain using the 3D Slicer. Ultrasound in Obstetrics and Gynecology, 2013, 42, 609-610.	1.7	11
105	Volumetric CT-based segmentation of NSCLC using 3D-Slicer. Scientific Reports, 2013, 3, 3529.	3.3	168
106	Objective Evaluation of Accuracy of Intra-Operative Neuroimage Registration. , 2013, , 87-99.		7
107	Multifold Bayesian Kernelization in Alzheimer's Diagnosis. Lecture Notes in Computer Science, 2013, 16, 303-310.	1.3	24
108	On Describing Human White Matter Anatomy: The White Matter Query Language. Lecture Notes in Computer Science, 2013, 16, 647-654.	1.3	34

#	ARTICLE	IF	CITATIONS
109	Mapping Connectivity Damage in the Case of Phineas Gage. PLoS ONE, 2012, 7, e37454.	2.5	138
110	The National Alliance for Medical Image Computing, a roadmap initiative to build a free and open source software infrastructure for translational research in medical image analysis. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 176-180.	4.4	10
111	Excessive Extracellular Volume Reveals a Neurodegenerative Pattern in Schizophrenia Onset. Journal of Neuroscience, 2012, 32, 17365-17372.	3.6	259
112	Reduced fractional anisotropy and axial diffusivity in white matter in 22q11.2 deletion syndrome: A pilot study. Schizophrenia Research, 2012, 141, 35-39.	2.0	29
113	A 3D interactive multi-object segmentation tool using local robust statistics driven active contours. Medical Image Analysis, 2012, 16, 1216-1227.	11.6	70
114	3D Slicer as an image computing platform for the Quantitative Imaging Network. Magnetic Resonance Imaging, 2012, 30, 1323-1341.	1.8	5,126
115	Anterior limb of the internal capsule in schizophrenia: a diffusion tensor tractography study. Brain Imaging and Behavior, 2012, 6, 417-425.	2.1	39
116	Neuroimaging of structural pathology and connectomics in traumatic brain injury: Toward personalized outcome prediction. Neurolmage: Clinical, 2012, 1, 1-17.	2.7	111
117	Patient-Tailored Connectomics Visualization for the Assessment of White Matter Atrophy in Traumatic Brain Injury. Frontiers in Neurology, 2012, 3, 10.	2.4	53
118	Image registration for targeted MRI-guided transperineal prostate biopsy. Journal of Magnetic Resonance Imaging, 2012, 36, 987-992.	3.4	50
119	Pituitary Adenoma Volumetry with 3D Slicer. PLoS ONE, 2012, 7, e51788.	2.5	69
120	Ontological Labels for Automated Location of Left Ventricular Remodeling. , 2011, , .		0
121	Stochastic tractography study of Inferior Frontal Gyrus anatomical connectivity in schizophrenia. Neurolmage, 2011, 55, 1657-1664.	4.2	42
122	Interactive Diffusion Tensor Tractography Visualization for Neurosurgical Planning. Neurosurgery, 2011, 68, 496-505.	1.1	95
123	Impact of nonrigid motion correction technique on pixel-wise pharmacokinetic analysis of free-breathing pulmonary dynamic contrast-enhanced MR imaging. Journal of Magnetic Resonance Imaging, 2011, 33, 968-973.	3.4	18
124	Comparison of Acute and Chronic Traumatic Brain Injury Using Semi-Automatic Multimodal Segmentation of MR Volumes. Journal of Neurotrauma, 2011, 28, 2287-2306.	3.4	55
125	Atlas-Guided Segmentation of Vervet Monkey Brain MRI. Open Neuroimaging Journal, 2011, 5, 186-197.	0.2	14
126	A diffusion tensor imaging study of the anterior limb of the internal capsule in schizophrenia. Psychiatry Research - Neuroimaging, 2010, 184, 143-150.	1.8	42

#	ARTICLE	IF	CITATIONS
127	User-driven 3D mesh region targeting. , 2010, , .		1
128	Morphological Characteristics of Brain Tumors Causing Seizures. Archives of Neurology, 2010, 67, 336-42.	4.5	139
129	Clinical Application of Curvilinear Distraction Osteogenesis for Correction of Mandibular Deformities. Journal of Oral and Maxillofacial Surgery, 2009, 67, 996-1008.	1.2	66
130	MRI signal intensity based B-spline nonrigid registration for pre- and intraoperative imaging during prostate brachytherapy. Journal of Magnetic Resonance Imaging, 2009, 30, 1052-1058.	3.4	45
131	Spiny versus stubby: 3D reconstruction of human myenteric (type I) neurons. Histochemistry and Cell Biology, 2009, 131, 1-12.	1.7	14
132	Relationship Between White Matter Integrity, Attention, and Memory in Schizophrenia: A Diffusion Tensor Imaging Study. Brain Imaging and Behavior, 2009, 3, 191-201.	2.1	32
133	Shape abnormalities of caudate nucleus in schizotypal personality disorder. Schizophrenia Research, 2009, 110, 127-139.	2.0	32
134	Range of Motion After Computed Tomography-Based Simulation of Intertrochanteric Corrective Osteotomy in Cases of Slipped Capital Femoral Epiphysis. Journal of Pediatric Orthopaedics, 2009, 29, 336-340.	1.2	11
135	Comparison of different registration methods for surgical navigation in cranio-maxillofacial surgery. Journal of Cranio-Maxillo-Facial Surgery, 2008, 36, 109-116.	1.7	163
136	Lowering the Barriers Inherent in Translating Advances in Neuroimage Analysis to Clinical Research Applications. Academic Radiology, 2008, 15, 114-118.	2.5	5
137	Age-related deficits in fronto-temporal connections in schizophrenia: A diffusion tensor imaging study. Schizophrenia Research, 2008, 102, 181-188.	2.0	84
138	Quantitative Evaluation of Angular Measurements on Plain Radiographs in Patients With Slipped Capital Femoral Epiphysis. Journal of Pediatric Orthopaedics, 2008, 28, 291-296.	1.2	12
139	iTools: A Framework for Classification, Categorization and Integration of Computational Biology Resources. PLoS ONE, 2008, 3, e2265.	2.5	27
140	Evaluation of Brain MRI Alignment with the Robust Hausdorff Distance Measures. Lecture Notes in Computer Science, 2008, , 594-603.	1.3	22
141	Multimodal Registration of White Matter Brain Data via Optimal Mass Transport. , 2008, 2008, 27-35.		0
142	Multidetector CT of the Paranasal Sinus: Potential for Radiation Dose Reduction ¹ . Radiology, 2007, 243, 847-852.	7.3	55
143	A Hierarchical Algorithm for MR Brain Image Parcellation. IEEE Transactions on Medical Imaging, 2007, 26, 1201-1212.	8.9	97
144	Volumetric Assessment of Tumor Infiltration of Adjacent White Matter Based on Anatomic MRI and Diffusion Tensor Tractography. Academic Radiology, 2007, 14, 431-436.	2.5	39

#	ARTICLE	IF	CITATIONS
145	Preliminary Results of Nonfluoroscopy-based 3D Navigation for Neurointerventional Procedures. Journal of Vascular and Interventional Radiology, 2007, 18, 289-298.	0.5	8
146	Occipital lobe gray matter volume in male patients with chronic schizophrenia: A quantitative MRI study. Schizophrenia Research, 2007, 92, 197-206.	2.0	71
147	Oriented Speckle Reducing Anisotropic Diffusion. IEEE Transactions on Image Processing, 2007, 16, 1412-1424.	9.8	323
148	Using the logarithm of odds to define a vector space on probabilistic atlases. Medical Image Analysis, 2007, 11, 465-477.	11.6	85
149	A review of diffusion tensor imaging studies in schizophrenia. Journal of Psychiatric Research, 2007, 41, 15-30.	3.1	686
150	A CT Database for Research, Development and Education: Concept and Potential. Journal of Digital Imaging, 2007, 20, 17-22.	2.9	32
151	Patient-specific model of brain deformation: Application to medical image registration. Journal of Biomechanics, 2007, 40, 919-929.	2.1	189
152	Device connectivity for image-guided medical applications. Studies in Health Technology and Informatics, 2007, 125, 482-4.	0.3	4
153	Toward Real-Time Image Guided Neurosurgery Using Distributed and Grid Computing. , 2006, , .		28
154	A Bayesian model for joint segmentation and registration. Neurolmage, 2006, 31, 228-239.	4.2	244
155	Supratentorial Low-Grade Glioma Resectability: Statistical Predictive Analysis Based on Anatomic MR Features and Tumor Characteristics. Radiology, 2006, 239, 506-513.	7.3	91
156	Middle and Inferior Temporal Gyrus Gray Matter Volume Abnormalities in First-Episode Schizophrenia: An MRI Study. American Journal of Psychiatry, 2006, 163, 2103-2110.	7.2	119
157	Range of Curvilinear Distraction Devices Required for Treatment of Mandibular Deformities. Journal of Oral and Maxillofacial Surgery, 2006, 64, 259-264.	1.2	30
158	Augmented Reality Visualization for CT-guided Interventions: System Description, Feasibility, and Initial Evaluation in an Abdominal Phantom. Radiology, 2006, 240, 230-235.	7.3	51
159	Lobar Distribution of Lesion Volumes in Late-Life Depression: The Biomedical Informatics Research Network (BIRN). Neuropsychopharmacology, 2006, 31, 1500-1507.	5.4	36
160	Registration and Fusion of CT and MRI of the Temporal Bone. Journal of Computer Assisted Tomography, 2005, 29, 305-310.	0.9	22
161	Detection and analysis of statistical differences in anatomical shape. Medical Image Analysis, 2005, 9, 69-86.	11.6	95
162	Capturing intraoperative deformations: research experience at Brigham and Women's hospital. Medical Image Analysis, 2005, 9, 145-162.	11.6	75

#	ARTICLE	IF	CITATIONS
163	Rigid overlay of volume sonography and MR image data of the female pelvic floor using a fiducial based alignment—feasibility due to a case series. Computerized Medical Imaging and Graphics, 2005, 29, 243-249.	5.8	1
164	Analysis of skeletal movements in mandibular distraction osteogenesis. Journal of Oral and Maxillofacial Surgery, 2005, 63, 335-340.	1.2	29
165	Reproducibility of Functional MR Imaging: Preliminary Results of Prospective Multi-institutional Study Performed by Biomedical Informatics Research Network. Radiology, 2005, 237, 781-789.	7.3	92
166	An In Vivo MRI Study of Prefrontal Cortical Complexity in First-Episode Psychosis. American Journal of Psychiatry, 2005, 162, 65-70.	7.2	40
167	Deficits of motion integration and segregation in patients with unilateral extrastriate lesions. Brain, 2005, 128, 2134-2145.	7.6	32
168	Robust nonrigid registration to capture brain shift from intraoperative MRI. IEEE Transactions on Medical Imaging, 2005, 24, 1417-1427.	8.9	214
169	Fronto-temporal Disconnectivity in Schizotypal Personality Disorder: A Diffusion Tensor Imaging Study. Biological Psychiatry, 2005, 58, 468-478.	1.3	110
170	Middle and Inferior Temporal Gyrus Gray Matter Volume Abnormalities in Chronic Schizophrenia: An MRI Study. American Journal of Psychiatry, 2004, 161, 1603-1611.	7.2	352
171	A Comparison of Biventricular and Conventional Transvenous Defibrillation: A Computational Study Using Patient Derived Models. PACE - Pacing and Clinical Electrophysiology, 2004, 27, 586-593.	1.2	9
172	Patient-Specific Computational Analysis of Transvenous Defibrillation: A Comparison to Clinical Metrics in Humans. Annals of Biomedical Engineering, 2004, 32, 775-783.	2.5	9
173	Magnetic resonance imaging based colonography for diagnosis and assessment of diverticulosis and diverticulitis. International Journal of Colorectal Disease, 2004, 19, 474-80.	2.2	40
174	Three validation metrics for automated probabilistic image segmentation of brain tumours. Statistics in Medicine, 2004, 23, 1259-1282.	1.6	96
175	A statistically based flow for image segmentation. Medical Image Analysis, 2004, 8, 267-274.	11.6	42
176	Anatomical guided segmentation with non-stationary tissue class distributions in an expectation-maximization framework. , 2004, 2004, 81-84.		47
177	Statistical validation of image segmentation quality based on a spatial overlap index1. Academic Radiology, 2004, 11, 178-189.	2.5	1,363
178	Comparison of single-shot echo-planar and line scan protocols for diffusion tensor imaging1. Academic Radiology, 2004, 11, 224-232.	2.5	24
179	Prefrontal cortical thickness in first-episode psychosis: a magnetic resonance imaging study. Biological Psychiatry, 2004, 55, 131-140.	1.3	73
180	Shape of caudate nucleus and its cognitive correlates in neuroleptic-naive schizotypal personality disorder. Biological Psychiatry, 2004, 55, 177-184.	1.3	59

#	ARTICLE	IF	CITATIONS
181	Cavum septi pellucidi in first-episode schizophrenia and first-episode affective psychosis: an MRI study. Schizophrenia Research, 2004, 71, 65-76.	2.0	65
182	CAVE-technology for visualizing medical imagery. International Congress Series, 2004, 1268, 644-647.	0.2	2
183	An MRI study of spatial probability brain map differences between first-episode schizophrenia and normal controls. NeuroImage, 2004, 22, 1231-1246.	4.2	40
184	White matter hemisphere asymmetries in healthy subjects and in schizophrenia: a diffusion tensor MRI study. NeuroImage, 2004, 23, 213-223.	4.2	284
185	Method for combining information from white matter fiber tracking and gray matter parcellation. American Journal of Neuroradiology, 2004, 25, 1318-24.	2.4	29
186	Tumor detection in the bladder wall with a measurement of abnormal thickness in CT scans. IEEE Transactions on Biomedical Engineering, 2003, 50, 383-390.	4.2	46
187	Level set-based integration of segmentation and computational fluid dynamics for flow correction in phase contrast angiography. Academic Radiology, 2003, 10, 1416-1423.	2.5	9
188	Statistical validation based on parametric receiver operating characteristic analysis of continuous classification data1. Academic Radiology, 2003, 10, 1359-1368.	2.5	29
189	Spatial normalization of diffusion tensor MRI using multiple channels. NeuroImage, 2003, 20, 1995-2009.	4.2	194
190	Cingulate fasciculus integrity disruption in schizophrenia: a magnetic resonance diffusion tensor imaging study. Biological Psychiatry, 2003, 54, 1171-1180.	1.3	377
191	CT-Based Preoperative Analysis of Scapula Morphology and Glenohumeral Joint Geometry. Computer Aided Surgery, 2003, 8, 264-268.	1.8	23
192	Progressive Decrease of Left Superior Temporal Gyrus Gray Matter Volume in Patients With First-Episode Schizophrenia. American Journal of Psychiatry, 2003, 160, 156-164.	7.2	370
193	Anatomic and Physiologic Predictors of Apnea Severity in Morbidly Obese Subjects. Sleep, 2003, 26, 150-155.	1.1	58
194	Uncinate Fasciculus Findings in Schizophrenia: A Magnetic Resonance Diffusion Tensor Imaging Study. American Journal of Psychiatry, 2002, 159, 813-820.	7.2	453
195	The Male Predisposition to Pharyngeal Collapse. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 1388-1395.	5.6	360
196	MRI Study of Caudate Nucleus Volume and Its Cognitive Correlates in Neuroleptic-Naive Patients With Schizotypal Personality Disorder. American Journal of Psychiatry, 2002, 159, 1190-1197.	7.2	142
197	Shape Differences in the Corpus Callosum in First-Episode Schizophrenia and First-Episode Psychotic Affective Disorder. American Journal of Psychiatry, 2002, 159, 866-868.	7.2	58
198	3D Modeling and Virtual Endoscopy of the Small Bowel Based on Magnetic Resonance Imaging in Patients With Inflammatory Bowel Disease. Investigative Radiology, 2002, 37, 528-533.	6.2	38

#	ARTICLE	IF	CITATIONS
199	Quantitative MR Imaging Assessment of Prostate Gland Deformation before and During MR Imagingâ€“Guided Brachytherapy. Academic Radiology, 2002, 9, 906-912.	2.5	51
200	Amygdalaâ€“hippocampal shape differences in schizophrenia: the application of 3D shape models to volumetric MR data. Psychiatry Research - Neuroimaging, 2002, 115, 15-35.	1.8	121
201	Real-time registration of volumetric brain MRI by biomechanical simulation of deformation during image guided neurosurgery. Computing and Visualization in Science, 2002, 5, 3-11.	1.2	91
202	Serial registration of intraoperative MR images of the brain. Medical Image Analysis, 2002, 6, 337-359.	11.6	184
203	High-resolution line scan diffusion tensor MR imaging of white matter fiber tract anatomy. American Journal of Neuroradiology, 2002, 23, 67-75.	2.4	107
204	Evaluation of three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. Medical Physics, 2001, 28, 2551-2560.	3.0	201
205	A quantitative MR measure of the fornix in schizophrenia. Schizophrenia Research, 2001, 47, 87-97.	2.0	29
206	Transcranial magnetic stimulation coregistered with MRI: a comparison of a guided versus blind stimulation technique and its effect on evoked compound muscle action potentials. Clinical Neurophysiology, 2001, 112, 1781-1792.	1.5	123
207	Three-dimensional magnetic resonance imaging of fetal brains. Lancet, The, 2001, 357, 1177-1178.	13.7	41
208	Automated Segmentation of MR Images of Brain Tumors. Radiology, 2001, 218, 586-591.	7.3	432
209	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. Neurosurgery, 2001, 48, 787-798.	1.1	367
210	Three-Dimensional Reconstruction for Cortical Surgery: The Brigham and Women's Hospital Experience. Techniques in Neurosurgery, 2001, 7, 61-69.	0.3	4
211	A Functional Magnetic Resonance Imaging Study of Auditory Mismatch in Schizophrenia. American Journal of Psychiatry, 2001, 158, 938-943.	7.2	94
212	Perioperative Use of Transcranial Magnetic Stimulation. Techniques in Neurosurgery, 2001, 7, 33-51.	0.3	3
213	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. Neurosurgery, 2001, 48, 787-798.	1.1	278
214	An integrated visualization system for surgical planning and guidance using image fusion and an open MR. Journal of Magnetic Resonance Imaging, 2001, 13, 967-975.	3.4	327
215	Intraoperative diffusion imaging on a 0.5 Tesla interventional scanner. Journal of Magnetic Resonance Imaging, 2001, 13, 115-119.	3.4	55
216	Integration of interventional MRI with computer-assisted surgery. Journal of Magnetic Resonance Imaging, 2001, 13, 69-77.	3.4	95

#	ARTICLE	IF	CITATIONS
217	Prefrontal cortex, negative symptoms, and schizophrenia: an MRI study. <i>Psychiatry Research - Neuroimaging</i> , 2001, 108, 65-78.	1.8	170
218	Regional Magnetic Resonance Imaging Lesion Burden and Cognitive Function in Multiple Sclerosis. <i>Archives of Neurology</i> , 2001, 58, 115-21.	4.5	202
219	MR Imaging-guided Prostate Biopsy with Surgical Navigation Software: Device Validation and Feasibility. <i>Radiology</i> , 2001, 220, 263-268.	7.3	122
220	Changes in Activated T Cells in the Blood Correlate With Disease Activity in Multiple Sclerosis. <i>Archives of Neurology</i> , 2000, 57, 1183.	4.5	108
221	Three-Dimensional Optical Flow Method for Measurement of Volumetric Brain Deformation from Intraoperative MR Images. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 531-538.	0.9	60
222	An image processing strategy for the quantification and visualization of exercise-induced muscle MRI signal enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 11, 525-531.	3.4	26
223	Use of structural magnetic resonance imaging to predict who will get Alzheimer's disease. <i>Annals of Neurology</i> , 2000, 47, 430-439.	5.3	607
224	Adaptive, template moderated, spatially varying statistical classification. <i>Medical Image Analysis</i> , 2000, 4, 43-55.	11.6	343
225	Fast re-rendering of volume and surface graphics by depth, color, and opacity buffering. <i>Medical Image Analysis</i> , 2000, 4, 235-251.	11.6	8
226	Serial magnetic resonance imaging in multiple sclerosis: correlation with attacks, disability, and disease stage. <i>Journal of Neuroimmunology</i> , 2000, 104, 164-173.	2.3	74
227	MR-Based Three-Dimensional Modeling of the Normal Pelvic Floor in Women. <i>American Journal of Roentgenology</i> , 2000, 174, 657-660.	2.2	141
228	Volume assessment of the normal female cervix with MR imaging: Comparison of the segmentation technique and two geometric formulas. <i>Academic Radiology</i> , 2000, 7, 502-505.	2.5	8
229	Use of structural magnetic resonance imaging to predict who will get Alzheimer's disease. <i>Annals of Neurology</i> , 2000, 47, 430-439.	5.3	14
230	Virtual CT Cystoscopy. <i>Investigative Radiology</i> , 2000, 35, 331.	6.2	47
231	Intraoperative MR Imaging Guidance for Intracranial Neurosurgery: Experience with the First 200 Cases. <i>Radiology</i> , 1999, 211, 477-488.	7.3	178
232	Virtual Laryngoscopy. <i>Annals of Otology, Rhinology and Laryngology</i> , 1999, 108, 221-226.	1.1	44
233	Image-Guided Surgery. <i>Scientific American</i> , 1999, 280, 62-69.	1.0	81
234	Periventricular white matter injury in the premature infant is followed by reduced cerebral cortical gray matter volume at term. <i>Annals of Neurology</i> , 1999, 46, 755-760.	5.3	506

#	ARTICLE	IF	CITATIONS
235	Schizotypal personality disorder and MRI abnormalities of temporal lobe gray matter. Biological Psychiatry, 1999, 45, 1393-1402.	1.3	127
236	An Integrated Visualization System for Surgical Planning and Guidance Using Image Fusion and Interventional Imaging. Lecture Notes in Computer Science, 1999, , 809-819.	1.3	104
237	Excision of Cortical Dysplasia in the Language Area with Use of a Surgical Navigator: A Case Report. Epilepsia, 1998, 39, 1361-1366.	5.1	3
238	Computer-assisted three-dimensional reconstruction of head and neck tumors. Laryngoscope, 1998, 108, 1592-1598.	2.0	32
239	Magnetic resonance imaging shows orientation and asymmetry of white matter fiber tracts. Brain Research, 1998, 780, 27-33.	2.2	178
240	Quantitative magnetic resonance imaging of brain development in premature and mature newborns. Annals of Neurology, 1998, 43, 224-235.	5.3	596
241	Rapid tip tracking with MRI by a limited projection reconstruction technique. Journal of Magnetic Resonance Imaging, 1998, 8, 262-264.	3.4	26
242	Monitoring and visualization techniques for MR-guided laser ablations in an open MR system. Journal of Magnetic Resonance Imaging, 1998, 8, 933-943.	3.4	87
243	MRI monitoring of laser ablation using optical flow. Journal of Magnetic Resonance Imaging, 1998, 8, 1306-1318.	3.4	22
244	Volumetric object modeling for surgical simulation. Medical Image Analysis, 1998, 2, 121-132.	11.6	85
245	Experimentation with a transcranial magnetic stimulation system for functional brain mapping. Medical Image Analysis, 1998, 2, 133-142.	11.6	43
246	Three-dimensional multi-scale line filter for segmentation and visualization of curvilinear structures in medical images. Medical Image Analysis, 1998, 2, 143-168.	11.6	999
247	A high performance computing approach to the registration of medical imaging data. Parallel Computing, 1998, 24, 1345-1368.	2.1	74
248	A simple method of scalp localization using multiplanar reconstruction of MR images. World Neurosurgery, 1998, 50, 597-599.	1.3	1
249	Volumetric Evaluation of the Thalamus in Schizophrenic Male Patients Using Magnetic Resonance Imaging. Biological Psychiatry, 1998, 43, 649-659.	1.3	161
250	Virtual Pancreatography of Mucin-Producing Pancreatic Tumors. Computer Aided Surgery, 1998, 3, 264-268.	1.8	8
251	VIRTUAL OTOSCOPY. Otolaryngologic Clinics of North America, 1998, 31, 383-392.	1.1	34
252	THREE-DIMENSIONAL COMPUTED TOMOGRAPHY FOR PLANNING UROLOGIC SURGERY. Urologic Clinics of North America, 1998, 25, 103-111.	1.8	11

#	ARTICLE	IF	CITATIONS
253	Real-time interactive three-dimensional segmentation. Academic Radiology, 1998, 5, 49-56.	2.5	24
254	Deformable Modeling of Facial Tissue for Craniofacial Surgery Simulation. Computer Aided Surgery, 1998, 3, 228-238.	1.8	136
255	MRI Study of Cavum Septi Pellucidi in Schizophrenia, Affective Disorder, and Schizotypal Personality Disorder. American Journal of Psychiatry, 1998, 155, 509-515.	7.2	146
256	Deformable modeling of facial tissue for craniofacial surgery simulation. Computer Aided Surgery, 1998, 3, 228-238.	1.8	52
257	Visual Hemifield Mapping Using Transcranial Magnetic Stimulation Coregistered With Cortical Surfaces Derived From Magnetic Resonance Images. Journal of Clinical Neurophysiology, 1998, 15, 344-350.	1.7	33
258	Computer-Assisted Quantification of Periaxial Bone Rotation from X-Ray CT. Journal of Computer Assisted Tomography, 1998, 22, 615-620.	0.9	14

259

#	ARTICLE	IF	CITATIONS
271	Multi-modal volume registration by maximization of mutual information. Medical Image Analysis, 1996, 1, 35-51.	11.6	1,706
272	Segmentation of brain tissue from magnetic resonance images. Medical Image Analysis, 1996, 1, 109-127.	11.6	249
273	Intracranial compartment volumes in patients with enlarged ventricles assessed by magnetic resonance-based image processing. Journal of Neurosurgery, 1996, 84, 972-981.	1.6	54
274	Age-related changes in intracranial compartment volumes in normal adults assessed by magnetic resonance imaging. Journal of Neurosurgery, 1996, 84, 982-991.	1.6	179
275	Caudate, putamen, and globus pallidus volume in schizophrenia: A quantitative MRI study. Psychiatry Research - Neuroimaging, 1995, 61, 209-229.	1.8	160
276	Automatic identification of gray matter structures from MRI to improve the segmentation of white matter lesions. Journal of Image Guided Surgery, 1995, 1, 326-338.	0.3	146
277	Three-dimensional imaging and display of renal tumors using spiral CT a potential aid to partial nephrectomy. Urology, 1994, 43, 125-129.	1.0	59
278	Temporal lobe sulco-gyral pattern anomalies in schizophrenia: an in vivo MR three-dimensional surface rendering study. Neuroscience Letters, 1994, 182, 7-12.	2.1	93
279	Video Registration Virtual Reality for Nonlinkage Stereotactic Surgery. Stereotactic and Functional Neurosurgery, 1994, 63, 139-143.	1.5	78
280	Temporal Lobe Abnormalities in a Patient with Schizophrenia Who has Word-Finding Difficulty: Use of High-Resolution Magnetic Resonance Imaging and Auditory P300 Event-Related Potentials. Harvard Review of Psychiatry, 1993, 1, 110-117.	2.1	9
281	4D Connected component labelling applied to quantitative analysis of MS lesion temporal development. , 1992, , .		16
282	Computer assisted planning of surgical procedures. , 1992, , .		0
283	A Chronic Illness Characterized by Fatigue, Neurologic and Immunologic Disorders, and Active Human Herpesvirus Type 6 Infection. Annals of Internal Medicine, 1992, 116, 103-113.	3.9	345
284	Abnormalities of the Left Temporal Lobe and Thought Disorder in Schizophrenia. New England Journal of Medicine, 1992, 327, 604-612.	27.0	1,141
285	Unsupervised tissue type segmentation of 3D dual-echo MR head data. Image and Vision Computing, 1992, 10, 349-360.	4.5	83
286	Routine quantitative analysis of brain and cerebrospinal fluid spaces with MR imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 619-629.	3.4	224
287	Application of automated MRI volumetric measurement techniques to the ventricular system in schizophrenics and normal controls. Schizophrenia Research, 1991, 5, 103-113.	2.0	57
288	3D Surface Rendered MR Images of the Brain and its Vasculature. Journal of Computer Assisted Tomography, 1991, 15, 344-351.	0.9	97

#	ARTICLE	IF	CITATIONS
289	Three-Dimensional Segmentation of MR Images of the Head Using Probability and Connectivity. Journal of Computer Assisted Tomography, 1990, 14, 1037-1045.	0.9	310
290	MR Imaging of Brain Maturation in Normal and Developmentally Handicapped Children. Journal of Computer Assisted Tomography, 1990, 14, 685-692.	0.9	45