

# Daniel Rueckert

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

563  
papers

32,412  
citations

87  
h-index

170  
g-index

613  
ext. papers

40,461  
ext. citations

5.7  
avg, IF

7.35  
L-index

#	Paper	IF	Citations
563	Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. <i>Brain and Spine</i> , <b>2022</b> , 2, 100854		0
562	Machine learning in knee arthroplasty: specific data are key-a systematic review.. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2022</b> , 30, 376	5.5	1
561	sPLINK: a hybrid federated tool as a robust alternative to meta-analysis in genome-wide association studies.. <i>Genome Biology</i> , <b>2022</b> , 23, 32	18.3	1
560	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation.. <i>Lancet Neurology, The</i> , <b>2022</b> , 21, 153-162	24.1	2
559	Self-supervised Learning for Few-shot Medical Image Segmentation.. <i>IEEE Transactions on Medical Imaging</i> , <b>2022</b> , PP,	11.7	3
558	AI-Based Reconstruction for Fast MRI A Systematic Review and Meta-Analysis. <i>Proceedings of the IEEE</i> , <b>2022</b> , 110, 224-245	14.3	8
557	Zen and the art of model adaptation: Low-utility-cost attack mitigations in collaborative machine learning. <i>Proceedings on Privacy Enhancing Technologies</i> , <b>2022</b> , 2022, 274-290	3.2	
556	Artificial Intelligence in Medicine and Privacy Preservation <b>2022</b> , 145-158		
555	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning.. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2022</b> , 24, 16	6.9	2
554	Concept of the Munich/Augsburg Consortium Precision in Mental Health for the German Center of Mental Health.. <i>Frontiers in Psychiatry</i> , <b>2022</b> , 13, 815718	5	1
553	Prediction of complications and surgery duration in primary TKA with high accuracy using machine learning with arthroplasty-specific data.. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2022</b> , 1	5.5	1
552	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes.. <i>Developmental Cognitive Neuroscience</i> , <b>2022</b> , 54, 101103	5.5	1
551	Genetic and environmental determinants of diastolic heart function. <b>2022</b> , 1, 361-371		0
550	Artificial Intelligence-Based Image Reconstruction in Cardiac Magnetic Resonance. <i>Contemporary Medical Imaging</i> , <b>2022</b> , 139-147	0.1	
549	Serum metabolome associated with severity of acute traumatic brain injury.. <i>Nature Communications</i> , <b>2022</b> , 13, 2545	17.4	2
548	Predicting age and clinical risk from the neonatal connectome.. <i>NeuroImage</i> , <b>2022</b> , 119319	7.9	2
547	Privacy: An Axiomatic Approach. <i>Entropy</i> , <b>2022</b> , 24, 714	2.8	1

546	The developing brain structural and functional connectome fingerprint. <i>Developmental Cognitive Neuroscience</i> , <b>2022</b> , 55, 101117	5.5	0
545	Flimma: a federated and privacy-aware tool for differential gene expression analysis.. <i>Genome Biology</i> , <b>2021</b> , 22, 338	18.3	2
544	Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. <i>JAMA Network Open</i> , <b>2021</b> , 4, e2134121	10.4	0
543	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 3315-3331	5.4	6
542	Prediction of Global Functional Outcome and Post-Concussive Symptoms after Mild Traumatic Brain Injury: External Validation of Prognostic Models in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 196-209	5.4	4
541	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 235-251	5.4	12
540	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , <b>2021</b> , 4, 60	15.7	29
539	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. <i>Brain</i> , <b>2021</b> , 144, 2199-2213	11.2	18
538	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 3665-3677	5.1	3
537	De Novo Radiomics Approach Using Image Augmentation and Features From T1 Mapping to Predict Gleason Scores in Prostate Cancer. <i>Investigative Radiology</i> , <b>2021</b> , 56, 661-668	10.1	2
536	Dynamic Spatio-Temporal Graph Convolutional Networks For Cardiac Motion Analysis <b>2021</b> ,		2
535	End-to-end privacy preserving deep learning on multi-institutional medical imaging. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 473-484	22.5	43
534	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. <i>Proceedings of the IEEE</i> , <b>2021</b> , 109, 820-838	14.3	83
533	Systematic evaluation of iterative deep neural networks for fast parallel MRI reconstruction with sensitivity-weighted coil combination. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 1859-1872	4.4	9
532	Medical imaging deep learning with differential privacy. <i>Scientific Reports</i> , <b>2021</b> , 11, 13524	4.9	9
531	Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 1842-1857	5.4	4
530	Complementary time-frequency domain networks for dynamic parallel MR image reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 3274-3291	4.4	5
529	Late-Gadolinium Enhancement Interface Area and Electrophysiological Simulations Predict Arrhythmic Events in Patients With Nonischemic Dilated Cardiomyopathy. <i>JACC: Clinical Electrophysiology</i> , <b>2021</b> , 7, 238-249	4.6	3

528	Frequency of fatigue and its changes in the first 6 months after traumatic brain injury: results from the CENTER-TBI study. <i>Journal of Neurology</i> , <b>2021</b> , 268, 61-73	5.5	2
527	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101832	15.4	30
526	Automated analysis and detection of abnormalities in transaxial anatomical cardiovascular magnetic resonance images: a proof of concept study with potential to optimize image acquisition. <i>International Journal of Cardiovascular Imaging</i> , <b>2021</b> , 37, 1033-1042	2.5	4
525	Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. <i>Neurocritical Care</i> , <b>2021</b> , 35, 184-196	3.3	8
524	T1, T2, and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. <i>Journal of Magnetic Resonance Imaging</i> , <b>2021</b> , 53, 1253-1265	5.6	4
523	Modelling Cardiac Motion via Spatio-Temporal Graph Convolutional Networks to Boost the Diagnosis of Heart Conditions. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 56-65	0.9	3
522	Learning a Model-Driven Variational Network for Deformable Image Registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , PP,	11.7	3
521	CAS-Net: Conditional Atlas Generation and Brain Segmentation for Fetal MRI. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 221-230	0.9	1
520	Evaluation of the Robustness of Learned MR Image Reconstruction to Systematic Deviations Between Training and Test Data for the Models from the fastMRI Challenge. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 25-34	0.9	2
519	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 264-272	0.9	2
518	Artificial Intelligence in Medicine and Privacy Preservation <b>2021</b> , 1-14		
517	Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 149-159	0.9	6
516	Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 14-24	0.9	2
515	Mutual Information-Based Disentangled Neural Networks for Classifying Unseen Categories in Different Domains: Application to Fetal Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 722-734	11.7	8
514	Incidental findings on brain MR imaging of asymptomatic term neonates in the Developing Human Connectome Project. <i>EclinicalMedicine</i> , <b>2021</b> , 38, 100984	11.3	3
513	Efficient, high-performance semantic segmentation using multi-scale feature extraction. <i>PLoS ONE</i> , <b>2021</b> , 16, e0255397	3.7	1
512	Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. <i>Intensive Care Medicine</i> , <b>2021</b> , 47, 1115-1129	14.5	1
511	Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , <b>2021</b> , 29, 113	3.6	2

510	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury: A TRACK-TBI Study With External Validation in CENTER-TBI. <i>JAMA Neurology</i> , <b>2021</b> , 78, 1137-1148	17.2	10
509	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 78, 1097-1110	15.1	3
508	AI for Doctors-A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. <i>Healthcare (Switzerland)</i> , <b>2021</b> , 9,	3.4	1
507	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 749-758	22.5	4
506	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. <i>NeuroImage</i> , <b>2021</b> , 243, 118488	7.9	3
505	Transductive Image Segmentation: Self-training and Effect of Uncertainty Estimation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 79-89	0.9	
504	Detecting Hypo-plastic Left Heart Syndrome in Fetal Ultrasound via Disease-Specific Atlas Maps. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 207-217	0.9	1
503	Improving Phenotype Prediction Using Long-Range Spatio-Temporal Dynamics of Functional Connectivity. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 145-154	0.9	1
502	Deep Learning-Based Automated Abdominal Organ Segmentation in the UK Biobank and German National Cohort Magnetic Resonance Imaging Studies. <i>Investigative Radiology</i> , <b>2021</b> , 56, 401-408	10.1	4
501	Reducing Textural Bias Improves Robustness of Deep Segmentation Models. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 294-304	0.9	1
500	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. <i>Neurocritical Care</i> , <b>2021</b> , 1	3.3	0
499	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis.. <i>Neurocritical Care</i> , <b>2021</b> , 1	3.3	0
498	Effects of gestational age at birth on perinatal structural brain development in healthy term-born babies.. <i>Human Brain Mapping</i> , <b>2021</b> ,	5.9	1
497	Multiclass semantic segmentation and quantification of traumatic brain injury lesions on head CT using deep learning: an algorithm development and multicentre validation study. <i>The Lancet Digital Health</i> , <b>2020</b> , 2, e314-e322	14.4	35
496	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 2069-2080	5.4	9
495	Parental age effects on neonatal white matter development. <i>NeuroImage: Clinical</i> , <b>2020</b> , 27, 102283	5.3	4
494	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 5767-5779	5.1	12
493	Secure, privacy-preserving and federated machine learning in medical imaging. <i>Nature Machine Intelligence</i> , <b>2020</b> , 2, 305-311	22.5	162

492	Deep Learning for Cardiac Image Segmentation: A Review. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 25	5.4	203
491	Improving ultrasound video classification: an evaluation of novel deep learning methods in echocardiography. <i>Journal of Medical Artificial Intelligence</i> , <b>2020</b> , 3,	1.6	12
490	Sparse Data-Driven Learning for Effective and Efficient Biomedical Image Segmentation. <i>Annual Review of Biomedical Engineering</i> , <b>2020</b> , 22, 127-153	12	1
489	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 105	5.4	40
488	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. <i>Scientific Reports</i> , <b>2020</b> , 10, 2408	4.9	13
487	Sex and regional differences in myocardial plasticity in aortic stenosis are revealed by 3D model machine learning. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2020</b> , 21, 417-427	4.1	5
486	A Systematic Comparison of Encrypted Machine Learning Solutions for Image Classification <b>2020</b> ,		4
485	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000976	9.7	16
484	Geometric Deep Learning for Post-Menstrual Age Prediction Based on the Neonatal White Matter Cortical Surface. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 174-186	0.9	2
483	Interpretable Deep Models for Cardiac Resynchronisation Therapy Response Prediction. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 2020, 284-293	0.9	8
482	Transfer Learning for Brain Segmentation: Pre-task Selection and Data Limitations. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 118-130	0.3	0
481	Spatial Semantic-Preserving Latent Space Learning for Accelerated DWI Diagnostic Report Generation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 333-342	0.9	1
480	Assessing the Impact of Blood Pressure on Cardiac Function Using Interpretable Biomarkers and Variational Autoencoders. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 22-30	0.9	1
479	Deep Learning for Cardiac Motion Estimation: Supervised vs. Unsupervised Training. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 186-194	0.9	4
478	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 294-306	0.3	3
477	Self-supervision with Superpixels: Training Few-Shot Medical Image Segmentation Without Annotation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 762-780	0.9	19
476	Realistic Adversarial Data Augmentation for MR Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 667-677	0.9	16
475	Biomechanics-Informed Neural Networks for Myocardial Motion Tracking in MRI. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 296-306	0.9	4

474	Ultrasound Video Summarization Using Deep Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 483-492	0.9	6
473	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 88-97	0.9	5
472	Image-Level Harmonization of Multi-site Data Using Image-and-Spatial Transformer Networks. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 710-719	0.9	6
471	Unsupervised Cross-domain Image Classification by Distance Metric Guided Feature Alignment. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 146-157	0.9	2
470	Automated Detection of Congenital Heart Disease in Fetal Ultrasound Screening. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 243-252	0.9	1
469	Patch-Based Brain Age Estimation From MR Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 98-107	0.9	3
468	Communicative Reinforcement Learning Agents for Landmark Detection in Brain Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 177-186	0.9	4
467	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. <i>Journal of Critical Care</i> , <b>2020</b> , 59, 6-15	4	4
466	Global Burden of Small Vessel Disease-Related Brain Changes on MRI Predicts Cognitive and Functional Decline. <i>Stroke</i> , <b>2020</b> , 51, 170-178	6.7	53
465	Model-Based and Data-Driven Strategies in Medical Image Computing. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 110-124	14.3	16
464	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2088-2099	11.7	12
463	Water-fat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 2107-2123	4.4	19
462	Prognostic Validation of the NINDS Common Data Elements for the Radiologic Reporting of Acute Traumatic Brain Injuries: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1269-1282	5.4	4
461	Limited One-time Sampling Irregularity Map (LOTS-IM) for Automatic Unsupervised Assessment of White Matter Hyperintensities and Multiple Sclerosis Lesions in Structural Brain Magnetic Resonance Images. <i>Computerized Medical Imaging and Graphics</i> , <b>2020</b> , 79, 101685	7.6	5
460	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. <i>NeuroImage: Clinical</i> , <b>2020</b> , 28, 102423	5.3	2
459	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants. <i>NeuroImage</i> , <b>2020</b> , 223, 117303	7.9	28
458	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. <i>Neurorehabilitation and Neural Repair</i> , <b>2020</b> , 34, 814-830	4.7	5
457	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 125, 505-517	5.4	9



456	CINENet: deep learning-based 3D cardiac CINE MRI reconstruction with multi-coil complex-valued 4D spatio-temporal convolutions. <i>Scientific Reports</i> , <b>2020</b> , 10, 13710	4.9	48
455	Discriminating electrocardiographic responses to His-bundle pacing using machine learning. <i>Cardiovascular Digital Health Journal</i> , <b>2020</b> , 1, 11-20	2	7
454	Volume Change in Frontal Cholinergic Structures After Traumatic Brain Injury and Cognitive Outcome. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 832	4.1	4
453	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , <b>2020</b> , 26, 1654-1662	50.5	23
452	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4348	4.4	8
451	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. <i>Scientific Reports</i> , <b>2020</b> , 10, 14909	4.9	2
450	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , <b>2020</b> , 584, 589-594	50.4	26
449	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 4800-4810	5.1	27
448	Evaluating severity of white matter lesions from computed tomography images with convolutional neural network. <i>Neuroradiology</i> , <b>2020</b> , 62, 1257-1263	3.2	2
447	Scar shape analysis and simulated electrical instabilities in a non-ischemic dilated cardiomyopathy patient cohort. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007421	5	5
446	3D High-Resolution Cardiac Segmentation Reconstruction From 2D Views Using Conditional Variational Autoencoders <b>2019</b> ,		5
445	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. <i>Lancet Neurology</i> , <b>2019</b> , 18, 923-934	24.1	139
444	Brain Connectivity Measures Improve Modeling of Functional Outcome After Acute Ischemic Stroke. <i>Stroke</i> , <b>2019</b> , 50, 2761-2767	6.7	14
443	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e009214	3.9	43
442	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi-Task Deep Learning Approach. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2151-2164	11.7	85
441	Attention gated networks: Learning to leverage salient regions in medical images. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 197-207	15.4	400
440	Computational anatomy for multi-organ analysis in medical imaging: A review. <i>Medical Image Analysis</i> , <b>2019</b> , 56, 44-67	15.4	22
439	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. <i>Medical Image Analysis</i> , <b>2019</b> , 55, 136-147	15.4	42



438	Weakly Supervised Estimation of Shadow Confidence Maps in Fetal Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2755-2767	11.7	21
437	Impact of a clinical decision support tool on prediction of progression in early-stage dementia: a prospective validation study. <i>Alzheimer's Research and Therapy</i> , <b>2019</b> , 11, 25	9	14
436	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 18	6.9	49
435	Cardiac Rhythm Device Identification Using Neural Networks. <i>JACC: Clinical Electrophysiology</i> , <b>2019</b> , 5, 576-586	4.6	22
434	Ventricular remodeling in preterm infants: computational cardiac magnetic resonance atlas shows significant early remodeling of the left ventricle. <i>Pediatric Research</i> , <b>2019</b> , 85, 807-815	3.2	26
433	Evaluating reinforcement learning agents for anatomical landmark detection. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 156-164	15.4	68
432	Impact of a Clinical Decision Support Tool on Dementia Diagnostics in Memory Clinics: The PredictND Validation Study. <i>Current Alzheimer Research</i> , <b>2019</b> , 16, 91-101	3	16
431	Deep learning cardiac motion analysis for human survival prediction. <i>Nature Machine Intelligence</i> , <b>2019</b> , 1, 95-104	22.5	109
430	Convolutional Recurrent Neural Networks for Dynamic MR Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 280-290	11.7	218
429	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. <i>NeuroImage</i> , <b>2019</b> , 185, 750-763	7.9	59
428	Age-related craniofacial differences based on spatio-temporal face image atlases. <i>IET Image Processing</i> , <b>2019</b> , 13, 1561-1568	1.7	
427	Unsupervised Deformable Registration for Multi-modal Images via Disentangled Representations. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 249-261	0.9	38
426	Self-supervised learning for medical image analysis using image context restoration. <i>Medical Image Analysis</i> , <b>2019</b> , 58, 101539	15.4	117
425	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 61	6.9	74
424	Representation Disentanglement for Multi-task Learning with Application to Fetal Ultrasound. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 47-55	0.9	3
423	Flexible Conditional Image Generation of Missing Data with Learned Mental Maps. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 139-150	0.9	
422	k-t NEXT: Dynamic MR Image Reconstruction Exploiting Spatio-Temporal Correlations. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 505-513	0.9	10
421	Learning Shape Priors for Robust Cardiac MR Segmentation from Multi-view Images. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 523-531	0.9	12

4 <sup>20</sup>	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 541-549	0.9	31
4 <sup>19</sup>	Data Efficient Unsupervised Domain Adaptation For Cross-modality Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 669-677	0.9	35
4 <sup>18</sup>	Multiple Landmark Detection Using Multi-agent Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 262-270	0.9	22
4 <sup>17</sup>	Detection and Correction of Cardiac MRI Motion Artefacts During Reconstruction from k-space. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 695-703	0.9	9
4 <sup>16</sup>	Exploiting Motion for Deep Learning Reconstruction of Extremely-Undersampled Dynamic MRI. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 704-712	0.9	10
4 <sup>15</sup>	VS-Net: Variable Splitting Network for Accelerated Parallel MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 713-722	0.9	20
4 <sup>14</sup>	Intelligent Image Synthesis to Attack a Segmentation CNN Using Adversarial Learning. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 90-99	0.9	7
4 <sup>13</sup>	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , <b>2019</b> , 9, 1130	4.9	23
4 <sup>12</sup>	Metabolic pathways associated with right ventricular adaptation to pulmonary hypertension: 3D analysis of cardiac magnetic resonance imaging. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2019</b> , 20, 668-676	4.1	10
4 <sup>11</sup>	Learning-Based Quality Control for Cardiac MR Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 1127-1138	11.7	31
4 <sup>10</sup>	Central versus Local Radiological Reading of Acute Computed Tomography Characteristics in Multi-Center Traumatic Brain Injury Research. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 1080-1092	5.4	20
4 <sup>09</sup>	Dynamic patterns of cortical expansion during folding of the preterm human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3156-3161	11.5	56
4 <sup>08</sup>	Automatic MRI Quantifying Methods in Behavioral-Variant Frontotemporal Dementia Diagnosis. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , <b>2018</b> , 8, 51-59	2.5	12
4 <sup>07</sup>	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. <i>NeuroImage</i> , <b>2018</b> , 173, 88-112	7.9	158
4 <sup>06</sup>	A Deep Cascade of Convolutional Neural Networks for Dynamic MR Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 491-503	11.7	503
4 <sup>05</sup>	Multi-Atlas Segmentation Using Partially Annotated Data: Methods and Annotation Strategies. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2018</b> , 40, 1683-1696	13.3	7
4 <sup>04</sup>	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 384-395	11.7	333
4 <sup>03</sup>	A large margin algorithm for automated segmentation of white matter hyperintensity. <i>Pattern Recognition</i> , <b>2018</b> , 77, 150-159	7.7	9

402	Metric learning with spectral graph convolutions on brain connectivity networks. <i>NeuroImage</i> , <b>2018</b> , 169, 431-442	7.9	122
401	3-D Reconstruction in Canonical Co-Ordinate Space From Arbitrarily Oriented 2-D Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1737-1750	11.7	32
400	Human brain mapping: A systematic comparison of parcellation methods for the human cerebral cortex. <i>NeuroImage</i> , <b>2018</b> , 170, 5-30	7.9	177
399	Statistical shape modeling of the left ventricle: myocardial infarct classification challenge. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 503-515	7.2	35
398	Distortion Correction in Fetal EPI Using Non-Rigid Registration With a Laplacian Constraint. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 12-19	11.7	13
397	A review on automatic fetal and neonatal brain MRI segmentation. <i>NeuroImage</i> , <b>2018</b> , 170, 231-248	7.9	85
396	Myocardial strain computed at multiple spatial scales from tagged magnetic resonance imaging: Estimating cardiac biomarkers for CRT patients. <i>Medical Image Analysis</i> , <b>2018</b> , 43, 169-185	15.4	5
395	Three-dimensional cardiovascular imaging-genetics: a mass univariate framework. <i>Bioinformatics</i> , <b>2018</b> , 34, 97-103	7.2	22
394	Structural brain imaging in Alzheimer's disease and mild cognitive impairment: biomarker analysis and shared morphometry database. <i>Scientific Reports</i> , <b>2018</b> , 8, 11258	4.9	58
393	Data-Driven Differential Diagnosis of Dementia Using Multiclass Disease State Index Classifier. <i>Frontiers in Aging Neuroscience</i> , <b>2018</b> , 10, 111	5.3	21
392	DRINet for Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 2453-2462	11.7	105
391	Multi-modal Learning from Unpaired Images: Application to Multi-organ Segmentation in CT and MRI <b>2018</b> ,		35
390	Evaluating combinations of diagnostic tests to discriminate different dementia types. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , <b>2018</b> , 10, 509-518	5.2	12
389	Deep learning with ultrasound physics for fetal skull segmentation <b>2018</b> ,		9
388	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. <i>NeuroImage</i> , <b>2018</b> , 179, 11-29	7.9	45
387	Modelling the progression of Alzheimer's disease in MRI using generative adversarial networks <b>2018</b> ,		13
386	Graph Saliency Maps Through Spectral Convolutional Networks: Application to Sex Classification with Brain Connectivity. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 3-13	0.9	16
385	Adversarial and Perceptual Refinement for Compressed Sensing MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 232-240	0.9	38

384	Automatic View Planning with Multi-scale Deep Reinforcement Learning Agents. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 277-285	0.9	20
383	Stochastic Deep Compressive Sensing for the Reconstruction of Diffusion Tensor Cardiac MRI. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 295-303	0.9	13
382	Fast Multiple Landmark Localisation Using a Patch-based Iterative Network. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 2018, 563-571	0.9	20
381	Computing CNN Loss and Gradients for Pose Estimation with Riemannian Geometry. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 756-764	0.9	7
380	Recurrent Neural Networks for Aortic Image Sequence Segmentation with Sparse Annotations. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 586-594	0.9	40
379	Deep Nested Level Sets: Fully Automated Segmentation of Cardiac MR Images in Patients with Pulmonary Hypertension. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 595-603	0.9	13
378	The Developing Human Connectome Project: a Minimal Processing Pipeline for Neonatal Cortical Surface Reconstruction <b>2018</b> , 173, 88-112		88
377	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , <b>2018</b> , 167, 453-465	0.9	124
376	Human-level Performance On Automatic Head Biometrics In Fetal Ultrasound Using Fully Convolutional Neural Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 714-717	0.9	17
375	Combining Deep Learning and Shape Priors for Bi-Ventricular Segmentation of Volumetric Cardiac Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 258-267	0.9	3
374	Fibrosis Microstructure Modulates Reentry in Non-ischemic Dilated Cardiomyopathy: Insights From Imaged Guided 2D Computational Modeling. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1832	4.6	16
373	Deep Learning Using K-Space Based Data Augmentation for Automated Cardiac MR Motion Artefact Detection. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 250-258	0.9	10
372	Real-Time Prediction of Segmentation Quality. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 578-585	0.9	14
371	A Comprehensive Approach for Learning-Based Fully-Automated Inter-slice Motion Correction for Short-Axis Cine Cardiac MR Image Stacks. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 268-276	0.9	5
370	Small Organ Segmentation in Whole-Body MRI Using a Two-Stage FCN and Weighting Schemes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 346-354	0.9	8
369	Automatic Shadow Detection in 2D Ultrasound Images. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 66-75	0.9	5
368	Standard Plane Detection in 3D Fetal Ultrasound Using an Iterative Transformation Network. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 392-400	0.9	18
367	Learning Interpretable Anatomical Features Through Deep Generative Models: Application to Cardiac Remodeling. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 464-471	0.9	25

366	3D Fetal Skull Reconstruction from 2DUS via Deep Conditional Generative Networks. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 383-391	0.9	14
365	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 65	6.9	285
364	Joint Motion Estimation and Segmentation from Undersampled Cardiac MR Image. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 55-63	0.9	10
363	Bayesian Deep Learning for Accelerated MR Image Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 64-71	0.9	11
362	Cardiac MR Motion Artefact Correction from K-space Using Deep Learning-Based Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 21-29	0.9	11
361	LSTM Spatial Co-transformer Networks for Registration of 3D Fetal US and MR Brain Images. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 149-159	0.9	8
360	Cardiac MR Segmentation from Undersampled k-space Using Deep Latent Representation Learning. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 259-267	0.9	9
359	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 472-480	0.9	44
358	Rapid Automated Quantification of Cerebral Leukoaraiosis on CT Images: A Multicenter Validation Study. <i>Radiology</i> , <b>2018</b> , 288, 573-581	20.5	20
357	Disease prediction using graph convolutional networks: Application to Autism Spectrum Disorder and Alzheimer's disease. <i>Medical Image Analysis</i> , <b>2018</b> , 48, 117-130	15.4	186
356	A Novel Grading Biomarker for the Prediction of Conversion From Mild Cognitive Impairment to Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 155-165	5	78
355	A framework for combining a motion atlas with non-motion information to learn clinically useful biomarkers: Application to cardiac resynchronisation therapy response prediction. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 669-684	15.4	30
354	Machine Learning of Three-dimensional Right Ventricular Motion Enables Outcome Prediction in Pulmonary Hypertension: A Cardiac MR Imaging Study. <i>Radiology</i> , <b>2017</b> , 283, 381-390	20.5	114
353	Reverse Classification Accuracy: Predicting Segmentation Performance in the Absence of Ground Truth. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 1597-1606	11.7	57
352	Five-class differential diagnostics of neurodegenerative diseases using random undersampling boosting. <i>NeuroImage: Clinical</i> , <b>2017</b> , 15, 613-624	5.3	23
351	Multi-atlas pancreas segmentation: Atlas selection based on vessel structure. <i>Medical Image Analysis</i> , <b>2017</b> , 39, 18-28	15.4	44
350	Spectral Graph Convolutions for Population-Based Disease Prediction. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 177-185	0.9	58
349	Automated Detection of Motion Artefacts in MR Imaging Using Decision Forests. <i>Journal of Medical Engineering</i> , <b>2017</b> , 2017, 4501647		20

348	Regional brain morphometry in patients with traumatic brain injury based on acute- and chronic-phase magnetic resonance imaging. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188152	3.7	19
347	Brain lesion segmentation through image synthesis and outlier detection. <i>NeuroImage: Clinical</i> , <b>2017</b> , 16, 643-658	5.3	25
346	Semi-supervised Learning for Network-Based Cardiac MR Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 253-260	0.9	98
345	Automatic Quality Control of Cardiac MRI Segmentation in Large-Scale Population Imaging. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 720-727	0.9	11
344	A flexible graphical model for multi-modal parcellation of the cortex. <i>NeuroImage</i> , <b>2017</b> , 162, 226-248	7.9	5
343	SonoNet: Real-Time Detection and Localisation of Fetal Standard Scan Planes in Freehand Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 2204-2215	11.7	145
342	Fully automatic acute ischemic lesion segmentation in DWI using convolutional neural networks. <i>NeuroImage: Clinical</i> , <b>2017</b> , 15, 633-643	5.3	144
341	Fully automatic, multiorgan segmentation in normal whole body magnetic resonance imaging (MRI), using classification forests (CFs), convolutional neural networks (CNNs), and a multi-atlas (MA) approach. <i>Medical Physics</i> , <b>2017</b> , 44, 5210-5220	4.4	20
340	Learning and combining image neighborhoods using random forests for neonatal brain disease classification. <i>Medical Image Analysis</i> , <b>2017</b> , 42, 189-199	15.4	8
339	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. <i>Scientific Reports</i> , <b>2017</b> , 7, 15088	4.9	41
338	A deformable model for the reconstruction of the neonatal cortex <b>2017</b> ,		11
337	Exploring heritability of functional brain networks with inexact graph matching <b>2017</b> ,		3
336	Efficient multi-scale 3D CNN with fully connected CRF for accurate brain lesion segmentation. <i>Medical Image Analysis</i> , <b>2017</b> , 36, 61-78	15.4	1630
335	DeepCut: Object Segmentation From Bounding Box Annotations Using Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 674-683	11.7	146
334	Autoadaptive motion modelling for MR-based respiratory motion estimation. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 83-100	15.4	20
333	Multi-modal classification of Alzheimer's disease using nonlinear graph fusion. <i>Pattern Recognition</i> , <b>2017</b> , 63, 171-181	7.7	101
332	Supervoxel classification forests for estimating pairwise image correspondences. <i>Pattern Recognition</i> , <b>2017</b> , 63, 561-569	7.7	18
331	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 250-269	15.4	248



330	Titin-truncating variants affect heart function in disease cohorts and the general population. <i>Nature Genetics</i> , <b>2017</b> , 49, 46-53	36.3	179
329	Stratified Decision Forests for Accurate Anatomical Landmark Localization in Cardiac Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 332-342	11.7	40
328	PVR: Patch-to-Volume Reconstruction for Large Area Motion Correction of Fetal MRI. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 2031-2044	11.7	22
327	Reproducible Large-Scale Neuroimaging Studies with the OpenMOLE Workflow Management System. <i>Frontiers in Neuroinformatics</i> , <b>2017</b> , 11, 21	3.9	2
326	Multi-channel MRI segmentation of eye structures and tumors using patient-specific features. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173900	3.7	9
325	Fully Convolutional Networks in Medical Imaging: Applications to Image Enhancement and Recognition. <i>Advances in Computer Vision and Pattern Recognition</i> , <b>2017</b> , 159-179	1.1	3
324	Unsupervised Domain Adaptation in Brain Lesion Segmentation with Adversarial Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 597-609	0.9	168
323	A Deep Cascade of Convolutional Neural Networks for MR Image Reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 647-658	0.9	111
322	Learning-Based Heart Coverage Estimation for Short-Axis Cine Cardiac MR Images. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 73-82	0.9	3
321	Predicting Slice-to-Volume Transformation in Presence of Arbitrary Subject Motion. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 296-304	0.9	25
320	Fully Automated Segmentation-Based Respiratory Motion Correction of Multiplanar Cardiac Magnetic Resonance Images for Large-Scale Datasets. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 332-340	0.9	15
319	Joint Supervoxel Classification Forest for Weakly-Supervised Organ Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 79-87	0.9	2
318	3D FCN Feature Driven Regression Forest-Based Pancreas Localization and Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 222-230	0.9	3
317	Learning Optimal Spatial Scales for Cardiac Strain Analysis Using a Motion Atlas. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 57-65	0.9	
316	A Multi-resolution Multi-model Method for Coronary Centerline Extraction Based on Minimal Path. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 320-328	0.9	2
315	Relationship between body composition and left ventricular geometry using three dimensional cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 32	6.9	16
314	Pseudo-healthy Image Synthesis for White Matter Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 87-96	0.9	12
313	Multi-input Cardiac Image Super-Resolution Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 246-254	0.9	78



312	A Weighted Mirror Descent Algorithm for Nonsmooth Convex Optimization Problem. <i>Journal of Optimization Theory and Applications</i> , <b>2016</b> , 170, 900-915	1.6	4
311	Evaluation of Six Registration Methods for the Human Abdomen on Clinically Acquired CT. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1563-72	5	82
310	An exploration of task based fMRI in neonates using echo-shifting to allow acquisition at longer TE without loss of temporal efficiency. <i>NeuroImage</i> , <b>2016</b> , 127, 298-306	7.9	4
309	A robust similarity measure for volumetric image registration with outliers. <i>Image and Vision Computing</i> , <b>2016</b> , 52, 97-113	3.7	6
308	Towards Left Ventricular Scar Localisation Using Local Motion Descriptors. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 30-39	0.9	3
307	Regional growth and atlasing of the developing human brain. <i>NeuroImage</i> , <b>2016</b> , 125, 456-478	7.9	113
306	Dynamic Changes in White Matter Abnormalities Correlate With Late Improvement and Deterioration Following TBI: A Diffusion Tensor Imaging Study. <i>Neurorehabilitation and Neural Repair</i> , <b>2016</b> , 30, 49-62	4.7	45
305	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 967-77	11.7	58
304	Learning Biomarker Models for Progression Estimation of Alzheimer's Disease. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153040	3.7	16
303	Structure Specific Atlas Generation and Its Application to Pancreas Segmentation from Contrast-enhanced Abdominal CT Volumes. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 47-56	0.9	4
302	Boundary Mapping Through Manifold Learning for Connectivity-Based Cortical Parcellation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 115-122	0.9	2
301	GraMPa: Graph-Based Multi-modal Parcellation of the Cortex Using Fusion Moves. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 148-156	0.9	6
300	Regression Forest-Based Atlas Localization and Direction Specific Atlas Generation for Pancreas Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 556-563	0.9	14
299	Fast Fully Automatic Segmentation of the Human Placenta from Motion Corrupted MRI. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 589-597	0.9	25
298	A Semi-supervised Large Margin Algorithm for White Matter Hyperintensity Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 104-112	0.9	1
297	DeepMedic for Brain Tumor Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 138-149	0.9	114
296	Differential Dementia Diagnosis on Incomplete Data with Latent Trees. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 44-52	0.9	1
295	Beyond the AHA 17-Segment Model: Motion-Driven Parcellation of the Left Ventricle. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 13-20	0.9	2

294	Eidolon: Visualization and Computational Framework for Multi-modal Biomedical Data Analysis. <i>Lecture Notes in Computer Science, 2016, 425-437</i>	0.9	3
293	Regional Differences in End-Diastolic Volumes between 3D Echo and CMR in HLHS Patients. <i>Frontiers in Pediatrics, 2016, 4, 133</i>	3.4	4
292	Fast Fully Automatic Segmentation of the Severely Abnormal Human Right Ventricle from Cardiovascular Magnetic Resonance Images Using a Multi-Scale 3D Convolutional Neural Network <b>2016,</b>		2
291	Discrete Optimisation for Group-Wise Cortical Surface Atlasing <b>2016,</b>		2
290	Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network <b>2016,</b>		1793
289	Differential diagnosis of neurodegenerative diseases using structural MRI data. <i>NeuroImage: Clinical, 2016, 11, 435-449</i>	5.3	81
288	Group-wise parcellation of the cortex through multi-scale spectral clustering. <i>NeuroImage, 2016, 136, 68-83</i>	7.9	31
287	Construction of a neonatal cortical surface atlas using multimodal surface matching <b>2016,</b>		4
286	Multiatlas whole heart segmentation of CT data using conditional entropy for atlas ranking and selection. <i>Medical Physics, 2015, 42, 3822-33</i>	4.4	53
285	Joint Spectral Decomposition for the Parcellation of the Human Cerebral Cortex Using Resting-State fMRI. <i>Lecture Notes in Computer Science, 2015, 24, 85-97</i>	0.9	24
284	Multi-atlas Segmentation as a Graph Labelling Problem: Application to Partially Annotated Atlas Data. <i>Lecture Notes in Computer Science, 2015, 24, 221-32</i>	0.9	9
283	Self-Aligning Manifolds for Matching Disparate Medical Image Datasets. <i>Lecture Notes in Computer Science, 2015, 24, 363-74</i>	0.9	9
282	Multi-stage Biomarker Models for Progression Estimation in Alzheimer's Disease. <i>Lecture Notes in Computer Science, 2015, 24, 387-98</i>	0.9	11
281	Learning a Global Descriptor of Cardiac Motion from a Large Cohort of 1000+ Normal Subjects. <i>Lecture Notes in Computer Science, 2015, 3-11</i>	0.9	3
280	Evaluating Imputation Techniques for Missing Data in ADNI: A Patient Classification Study. <i>Lecture Notes in Computer Science, 2015, 3-10</i>	0.9	10
279	Identification of Cerebral Small Vessel Disease Using Multiple Instance Learning. <i>Lecture Notes in Computer Science, 2015, 523-530</i>	0.9	9
278	Nonlinear Graph Fusion for Multi-modal Classification of Alzheimer's Disease. <i>Lecture Notes in Computer Science, 2015, 77-84</i>	0.9	8
277	Supervoxel Classification Forests for Estimating Pairwise Image Correspondences. <i>Lecture Notes in Computer Science, 2015, 94-101</i>	0.9	4

276	Fast Volume Reconstruction From Motion Corrupted Stacks of 2D Slices. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1901-13	11.7	100
275	Right ventricle segmentation from cardiac MRI: a collation study. <i>Medical Image Analysis</i> , <b>2015</b> , 19, 187-202	13.4	144
274	Evaluation of automatic neonatal brain segmentation algorithms: the NeoBrainS12 challenge. <i>Medical Image Analysis</i> , <b>2015</b> , 20, 135-51	15.4	67
273	Multi-atlas segmentation with augmented features for cardiac MR images. <i>Medical Image Analysis</i> , <b>2015</b> , 19, 98-109	15.4	116
272	A bi-ventricular cardiac atlas built from 1000+ high resolution MR images of healthy subjects and an analysis of shape and motion. <i>Medical Image Analysis</i> , <b>2015</b> , 26, 133-45	15.4	84
271	Precursors of Hypertensive Heart Phenotype Develop in Healthy Adults: A High-Resolution 3D MRI Study. <i>JACC: Cardiovascular Imaging</i> , <b>2015</b> , 8, 1260-9	8.4	30
270	Development of the Corticospinal and Callosal Tracts from Extremely Premature Birth up to 2 Years of Age. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125681	3.7	21
269	Brain Extraction Using Label Propagation and Group Agreement: Pinfram. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129211	3.7	34
268	Discriminative dictionary learning for abdominal multi-organ segmentation. <i>Medical Image Analysis</i> , <b>2015</b> , 23, 92-104	15.4	100
267	Geodesic Information Flows: Spatially-Variant Graphs and Their Application to Segmentation and Fusion. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1976-88	11.7	194
266	Manifold Learning for Cardiac Modeling and Estimation Framework. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 284-294	0.9	2
265	4D Blood Flow Reconstruction Over the Entire Ventricle From Wall Motion and Blood Velocity Derived From Ultrasound Data. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 2298-308	11.7	20
264	T2* relaxometry of fetal brain at 1.5 Tesla using a motion tolerant method. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1795-802	4.4	10
263	Robust whole-brain segmentation: application to traumatic brain injury. <i>Medical Image Analysis</i> , <b>2015</b> , 21, 40-58	15.4	106
262	Construction of a 4D Brain Atlas and Growth Model Using Diffeomorphic Registration. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 27-37	0.9	7
261	Tractography-Driven Groupwise Multi-scale Parcellation of the Cortex. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 24, 600-12	0.9	15
260	Flexible Reconstruction and Correction of Unpredictable Motion from Stacks of 2D Images. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 555-562	0.9	6
259	Prospective Identification of CRT Super Responders Using a Motion Atlas and Random Projection Ensemble Learning. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 493-500	0.9	6

258	Multi-Level Parcellation of the Cerebral Cortex Using Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 47-54	0.9	7
257	Fast Reconstruction of Accelerated Dynamic MRI Using Manifold Kernel Regression. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 510-518	0.9	5
256	Learning and Combining Image Similarities for Neonatal Brain Population Studies. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 110-117	0.9	
255	Prediction of Clinical Information from Cardiac MRI Using Manifold Learning. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 91-98	0.9	3
254	The relationship between lateral meniscus shape and joint contact parameters in the knee: a study using data from the Osteoarthritis Initiative. <i>Arthritis Research and Therapy</i> , <b>2014</b> , 16, R27	5.7	10
253	Population-based studies of myocardial hypertrophy: high resolution cardiovascular magnetic resonance atlases improve statistical power. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, 16	6.9	34
252	Understanding the need of ventricular pressure for the estimation of diastolic biomarkers. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2014</b> , 13, 747-57	3.8	15
251	Automatic quantification of CT images for traumatic brain injury <b>2014</b> ,		2
250	Coronary centerline extraction based on ostium detection and model-guided directional minimal path <b>2014</b> ,		6
249	Hierarchical manifold learning for regional image analysis. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 444-61	11.7	23
248	Patch-Based Evaluation of Image Segmentation <b>2014</b> ,		10
247	Dictionary learning and time sparsity for dynamic MR data reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 979-94	11.7	128
246	Common genetic variants and risk of brain injury after preterm birth. <i>Pediatrics</i> , <b>2014</b> , 133, e1655-63	7.4	32
245	Automated fetal brain segmentation from 2D MRI slices for motion correction. <i>NeuroImage</i> , <b>2014</b> , 101, 633-43	7.9	60
244	Automatic whole brain MRI segmentation of the developing neonatal brain. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 1818-31	11.7	189
243	Super-resolution reconstruction of cardiac MRI using coupled dictionary learning <b>2014</b> ,		15
242	A prospective evaluation of cardiovascular magnetic resonance measures of dyssynchrony in the prediction of response to cardiac resynchronization therapy. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, 58	6.9	38
241	Manifold population modeling as a neuro-imaging biomarker: application to ADNI and ADNI-GO. <i>NeuroImage</i> , <b>2014</b> , 94, 275-286	7.9	37

240	Rich-club organization of the newborn human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7456-61	11.5	217
239	Automatic quantification of normal cortical folding patterns from fetal brain MRI. <i>NeuroImage</i> , <b>2014</b> , 91, 21-32	7.9	87
238	High-resolution dynamic MR imaging of the thorax for respiratory motion correction of PET using groupwise manifold alignment. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 939-52	15.4	33
237	Prediction of stroke thrombolysis outcome using CT brain machine learning. <i>NeuroImage: Clinical</i> , <b>2014</b> , 4, 635-40	5.3	94
236	Consistent and robust 4D whole-brain segmentation: Application to traumatic brain injury <b>2014</b> ,		3
235	Registration and Segmentation in Medical Imaging. <i>Studies in Computational Intelligence</i> , <b>2014</b> , 137-156	0.8	5
234	Robustness of automated hippocampal volumetry across magnetic resonance field strengths and repeat images. <i>Alzheimer's and Dementia</i> , <b>2014</b> , 10, 430-438.e2	1.2	25
233	Multi-atlas propagation via a manifold graph on a database of both labeled and unlabeled images <b>2014</b> ,		1
232	Multi-scale feature learning on pixels and super-pixels for seminal vesicles MRI segmentation <b>2014</b> ,		1
231	Extended boundary shift integral <b>2014</b> ,		1
230	Graph-Based Label Propagation in Fetal Brain MR Images. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 9-16	0.9	6
229	Multiple instance learning for classification of dementia in brain MRI. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 808-18	15.4	109
228	Application-driven MRI: joint reconstruction and segmentation from undersampled MRI data. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 106-13	0.9	10
227	Multi-atlas spectral PatchMatch: application to cardiac image segmentation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 348-55	0.9	5
226	Geodesic patch-based segmentation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 666-73	0.9	22
225	Motion corrected 3D reconstruction of the fetal thorax from prenatal MRI. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 284-91	0.9	15
224	Manifold Alignment and Transfer Learning for Classification of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 77-84	0.9	14
223	A probabilistic patch-based label fusion model for multi-atlas segmentation with registration refinement: application to cardiac MR images. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 1302-15	11.7	145

222	Multi-atlas based neointima segmentation in intravascular coronary OCT <b>2013</b> ,		1
221	Automated analysis of atrial late gadolinium enhancement imaging that correlates with endocardial voltage and clinical outcomes: a 2-center study. <i>Heart Rhythm</i> , <b>2013</b> , 10, 1184-91	6.7	95
220	Evaluation of current algorithms for segmentation of scar tissue from late gadolinium enhancement cardiovascular magnetic resonance of the left atrium: an open-access grand challenge. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2013</b> , 15, 105	6.9	111
219	A Framework for Inter-Subject Prediction of Functional Connectivity From Structural Networks. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 2200-14	11.7	19
218	Automated abdominal multi-organ segmentation with subject-specific atlas generation. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 1723-30	11.7	180
217	Modeling of the bony pelvis from MRI using a multi-atlas AE-SDM for registration and tracking in image-guided robotic prostatectomy. <i>Computerized Medical Imaging and Graphics</i> , <b>2013</b> , 37, 183-94	7.6	8
216	The influence of preterm birth on the developing thalamocortical connectome. <i>Cortex</i> , <b>2013</b> , 49, 1711-21	3.8	156
215	Measurements of medial temporal lobe atrophy for prediction of Alzheimer's disease in subjects with mild cognitive impairment. <i>Neurobiology of Aging</i> , <b>2013</b> , 34, 2003-13	5.6	69
214	The estimation of patient-specific cardiac diastolic functions from clinical measurements. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 133-46	15.4	76
213	Benchmarking framework for myocardial tracking and deformation algorithms: an open access database. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 632-48	15.4	114
212	Segmentation of MR images via discriminative dictionary learning and sparse coding: application to hippocampus labeling. <i>NeuroImage</i> , <b>2013</b> , 76, 11-23	7.9	168
211	Temporal sparse free-form deformations. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 779-89	15.4	48
210	Random forest-based similarity measures for multi-modal classification of Alzheimer's disease. <i>NeuroImage</i> , <b>2013</b> , 65, 167-75	7.9	286
209	Cardiac image super-resolution with global correspondence using multi-atlas patchmatch. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 9-16	0.9	100
208	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. <i>Interface Focus</i> , <b>2013</b> , 3, 20120072	3.9	19
207	Multi-organ segmentation from 3D abdominal CT images using patient-specific weighted-probabilistic atlas <b>2013</b> ,		5
206	Localisation of the brain in fetal MRI using bundled SIFT features. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 582-9	0.9	14
205	Improving whole-brain segmentations through incorporating regional image intensity statistics <b>2013</b> ,		1

204	Landmark detection and coupled patch registration for cardiac motion tracking <b>2013</b> ,		3
203	Magnetic resonance imaging of the newborn brain: automatic segmentation of brain images into 50 anatomical regions. <i>PLoS ONE</i> , <b>2013</b> , 8, e59990	3.7	65
202	Testing the sensitivity of Tract-Based Spatial Statistics to simulated treatment effects in preterm neonates. <i>PLoS ONE</i> , <b>2013</b> , 8, e67706	3.7	24
201	Patch-Based Segmentation without Registration: Application to Knee MRI. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 98-105	0.9	11
200	Spatially Aware Patch-Based Segmentation (SAPS): An Alternative Patch-Based Segmentation Framework. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 93-103	0.9	8
199	Groupwise simultaneous manifold alignment for high-resolution dynamic MR imaging of respiratory motion. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 23, 232-43	0.9	11
198	Flow Analysis in Cardiac Chambers Combining Phase Contrast, 3D Tagged and Cine MRI. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 360-369	0.9	2
197	Multi-organ segmentation based on spatially-divided probabilistic atlas from 3D abdominal CT images. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 165-72	0.9	49
196	Multiple instance learning for classification of dementia in brain MRI. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 599-606	0.9	6
195	Model-guided directional minimal path for fully automatic extraction of coronary centerlines from cardiac CTA. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 542-9	0.9	6
194	Multiple sclerosis lesion segmentation using dictionary learning and sparse coding. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 735-42	0.9	35
193	Normalisation of neonatal brain network measures using stochastic approaches. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 574-81	0.9	2
192	Real-Time Catheter Extraction from 2D X-Ray Fluoroscopic and 3D Echocardiographic Images for Cardiac Interventions. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 198-206	0.9	1
191	Reconstruction of a 3D surface from video that is robust to missing data and outliers: application to minimally invasive surgery using stereo and mono endoscopes. <i>Medical Image Analysis</i> , <b>2012</b> , 16, 597-611	15.4	35
190	Nonlinear dimensionality reduction combining MR imaging with non-imaging information. <i>Medical Image Analysis</i> , <b>2012</b> , 16, 819-30	15.4	44
189	Diffeomorphic 3D Image Registration via Geodesic Shooting Using an Efficient Adjoint Calculation. <i>International Journal of Computer Vision</i> , <b>2012</b> , 97, 229-241	10.6	117
188	A comprehensive cardiac motion estimation framework using both untagged and 3-D tagged MR images based on nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 1263-75	11.7	64
187	Fast and accurate global geodesic registrations using knee MRI from the Osteoarthritis Initiative <b>2012</b> ,		4



186	Recognition of 3D facial expression dynamics. <i>Image and Vision Computing</i> , <b>2012</b> , 30, 762-773	3.7	75
185	Multi-class brain segmentation using atlas propagation and EM-based refinement <b>2012</b> ,		17
184	Automatic segmentation of pediatric brain MRIs using a maximum probability pediatric atlas <b>2012</b> ,		4
183	LISA: Longitudinal image registration via spatio-temporal atlases <b>2012</b> ,		6
182	Test sequence of CSF and MRI biomarkers for prediction of AD in subjects with MCI. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 2272-81	5.6	72
181	A new automated system to identify a consistent sampling position to make tissue Doppler and transmitral Doppler measurements of E, E' and E/E'. <i>International Journal of Cardiology</i> , <b>2012</b> , 155, 394-9 <sup>3.2</sup>		7
180	Remodeling after acute myocardial infarction: mapping ventricular dilatation using three dimensional CMR image registration. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2012</b> , 14, 41	6.9	20
179	Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. <i>NeuroImage</i> , <b>2012</b> , 59, 2255-65	7.9	201
178	Automated measurement of local white matter lesion volume. <i>NeuroImage</i> , <b>2012</b> , 59, 3901-8	7.9	11
177	Sparse reduced-rank regression detects genetic associations with voxel-wise longitudinal phenotypes in Alzheimer's disease. <i>NeuroImage</i> , <b>2012</b> , 60, 700-16	7.9	96
176	Multi-region analysis of longitudinal FDG-PET for the classification of Alzheimer's disease. <i>NeuroImage</i> , <b>2012</b> , 60, 221-9	7.9	101
175	Magnetic resonance imaging of the newborn brain: manual segmentation of labelled atlases in term-born and preterm infants. <i>NeuroImage</i> , <b>2012</b> , 62, 1499-509	7.9	119
174	Hippocampal atrophy in Alzheimer's disease. <i>Neurodegenerative Disease Management</i> , <b>2012</b> , 2, 197-209	2.8	2
173	Software tool for improved prediction of Alzheimer's disease. <i>Neurodegenerative Diseases</i> , <b>2012</b> , 10, 149-52	2.3	11
172	Geodesic information flows. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 262-70	0.9	26
171	Structural MRI in frontotemporal dementia: comparisons between hippocampal volumetry, tensor-based morphometry and voxel-based morphometry. <i>PLoS ONE</i> , <b>2012</b> , 7, e52531	3.7	33
170	Injury markers predict time to dementia in subjects with MCI and amyloid pathology. <i>Neurology</i> , <b>2012</b> , 79, 1809-16	6.5	110
169	Landmark localisation in brain MR images using feature point descriptors based on 3D local self-similarities <b>2012</b> ,		4

168	Hippocampal atrophy rate using an expectation maximization classifier with a disease-specific prior <b>2012</b> ,		1
167	Multi-organ abdominal CT segmentation using hierarchically weighted subject-specific atlases. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 10-7	0.9	43
166	The effect of preterm birth on thalamic and cortical development. <i>Cerebral Cortex</i> , <b>2012</b> , 22, 1016-24	5.1	221
165	Robust Global Registration through Geodesic Paths on an Empirical Manifold with Knee MRI from the Osteoarthritis Initiative (OAI). <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 1-10	0.9	1
164	Nonrigid free-form registration using landmark-based statistical deformation models <b>2012</b> ,		4
163	Localised manifold learning for cardiac image analysis <b>2012</b> ,		2
162	Automatic detection of coronary stent struts in intravascular OCT imaging <b>2012</b> ,		4
161	Optimizing the diagnosis of early Alzheimer's disease in mild cognitive impairment subjects. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 32, 969-79	4.3	28
160	Classification and lateralization of temporal lobe epilepsies with and without hippocampal atrophy based on whole-brain automatic MRI segmentation. <i>PLoS ONE</i> , <b>2012</b> , 7, e33096	3.7	49
159	Manifold Learning for Medical Image Registration, Segmentation, and Classification. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , <b>2012</b> , 351-372	0.4	24
158	A Multi-image Graph Cut Approach for Cardiac Image Segmentation and Uncertainty Estimation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 178-187	0.9	4
157	Hierarchical manifold learning. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 512-9	0.9	9
156	Unsupervised Learning of Shape Complexity: Application to Brain Development. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 88-99	0.9	5
155	Solving MRF Minimization by Mirror Descent. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 587-598	0.9	3
154	Gradient Projection Learning for Parametric Nonrigid Registration. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 226-233	0.9	
153	Automatic Cardiac Motion Tracking Using Both Untagged and 3D Tagged MR Images. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 45-54	0.9	
152	Validation of a Novel Method for the Automatic Segmentation of Left Atrial Scar from Delayed-Enhancement Magnetic Resonance. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 254-262	0.9	1
151	Relating Brain Functional Connectivity to Anatomical Connections: Model Selection. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 178-185	0.9	1

150	Learning Correspondences in Knee MR Images from the Osteoarthritis Initiative. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 218-225	0.9	
149	Fast and robust extraction of hippocampus from MR images for diagnostics of Alzheimer's disease. <i>NeuroImage</i> , <b>2011</b> , 56, 185-96	7.9	84
148	Automatic morphometry in Alzheimer's disease and mild cognitive impairment. <i>NeuroImage</i> , <b>2011</b> , 56, 2024-37	7.9	101
147	Multi-template tensor-based morphometry: application to analysis of Alzheimer's disease. <i>NeuroImage</i> , <b>2011</b> , 56, 1134-44	7.9	74
146	A dynamic 4D probabilistic atlas of the developing brain. <i>NeuroImage</i> , <b>2011</b> , 54, 2750-63	7.9	213
145	Multi-method analysis of MRI images in early diagnostics of Alzheimer's disease. <i>PLoS ONE</i> , <b>2011</b> , 6, e25446	7.9	204
144	Simultaneous multi-scale registration using large deformation diffeomorphic metric mapping. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1746-59	11.7	62
143	A combined manifold learning analysis of shape and appearance to characterize neonatal brain development. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 2072-86	11.7	31
142	Tracking developmental changes in subcortical structures of the preterm brain using multi-modal MRI <b>2011</b> ,		6
141	A dynamic approach to the recognition of 3D facial expressions and their temporal models <b>2011</b> ,		39
140	Automatic vessel wall detection in intravascular coronary OCT <b>2011</b> ,		14
139	<b>2011</b> ,		6
138	Automated quantification and analysis of facial asymmetry in children with arthritis in the temporomandibular joint <b>2011</b> ,		2
137	<b>2011</b> ,		6
136	Manifold learning combining imaging with non-imaging information <b>2011</b> ,		5
135	Improved generation of probabilistic atlases for the expectation maximization classification <b>2011</b> ,		4
134	Regional analysis of FDG-PET for use in the classification of Alzheimer's Disease <b>2011</b> ,		14
133	Automatic segmentation and identification of solitary pulmonary nodules on follow-up CT scans based on local intensity structure analysis and non-rigid image registration <b>2011</b> ,		2

132	Dense Multi-frame Optic Flow for Non-rigid Objects Using Subspace Constraints. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 460-473	0.9	9
131	Automatic Segmentation of Different Pathologies from Cardiac Cine MRI Using Registration and Multiple Component EM Estimation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 163-170	0.9	16
130	A Framework Combining Multi-sequence MRI for Fully Automated Quantitative Analysis of Cardiac Global And Regional Functions. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 367-374	0.9	3
129	An Automatic Data Assimilation Framework for Patient-Specific Myocardial Mechanical Parameter Estimation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 392-400	0.9	14
128	Automatic Segmentation of Left Atrial Scar from Delayed-Enhancement Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 63-70	0.9	6
127	A probabilistic framework to infer brain functional connectivity from anatomical connections. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 22, 296-307	0.9	16
126	Laplacian Eigenmaps manifold learning for landmark localization in brain MR images. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 566-73	0.9	5
125	Random Forest-Based Manifold Learning for Classification of Imaging Data in Dementia. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 159-166	0.9	12
124	Inference of functional connectivity from structural brain connectivity <b>2010</b> ,		7
123	Coronary artery motion modeling from 3D cardiac CT sequences using template matching and graph search <b>2010</b> ,		1
122	Atlas selection strategy for automatic segmentation of pediatric brain MRIs into 83 ROIs <b>2010</b> ,		4
121	Construction of a dynamic 4D probabilistic atlas for the developing brain <b>2010</b> ,		1
120	Improving intersubject image registration using tissue-class information benefits robustness and accuracy of multi-atlas based anatomical segmentation. <i>NeuroImage</i> , <b>2010</b> , 51, 221-7	7.9	139
119	Measurement of hippocampal atrophy using 4D graph-cut segmentation: application to ADNI. <i>NeuroImage</i> , <b>2010</b> , 52, 109-18	7.9	113
118	A common neonatal image phenotype predicts adverse neurodevelopmental outcome in children born preterm. <i>NeuroImage</i> , <b>2010</b> , 52, 409-14	7.9	126
117	An optimised tract-based spatial statistics protocol for neonates: applications to prematurity and chronic lung disease. <i>NeuroImage</i> , <b>2010</b> , 53, 94-102	7.9	137
116	Nonrigid Registration of Medical Images: Theory, Methods, and Applications [Applications Corner. <i>IEEE Signal Processing Magazine</i> , <b>2010</b> , 27, 113-119	9.4	42
115	LEAP: learning embeddings for atlas propagation. <i>NeuroImage</i> , <b>2010</b> , 49, 1316-25	7.9	190

114	Fast and robust multi-atlas segmentation of brain magnetic resonance images. <i>NeuroImage</i> , <b>2010</b> , 49, 2352-65	7.9	297
113	Identifying population differences in whole-brain structural networks: a machine learning approach. <i>NeuroImage</i> , <b>2010</b> , 50, 910-9	7.9	76
112	Medical Image Registration <b>2010</b> , 131-154		15
111	Automated quantification and analysis of mandibular asymmetry <b>2010</b> ,		2
110	Manifold Learning for Biomarker Discovery in MR Imaging. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 116-123	6.3	12
109	Image guidance for robotic minimally invasive coronary artery bypass. <i>Computerized Medical Imaging and Graphics</i> , <b>2010</b> , 34, 61-8	7.6	32
108	Nonrigid Registration and Template Matching for Coronary Motion Modeling from 4D CTA. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 210-221	0.9	2
107	A Computational White Matter Atlas for Aging with Surface-Based Representation of Fasciculi. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 83-90	0.9	11
106	Simultaneous Reconstruction of 4-D Myocardial Motion from Both Tagged and Untagged MR Images Using Nonrigid Image Registration. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 98-107	0.9	2
105	A Robust Mosaicing Method with Super-Resolution for Optical Medical Images. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 373-382	0.9	7
104	Coronary Motion Estimation from CTA Using Probability Atlas and Diffeomorphic Registration. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 78-87	0.9	2
103	Simultaneous fine and coarse diffeomorphic registration: application to atrophy measurement in Alzheimer's disease. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 610-7	0.9	16
102	Large Deformation Diffeomorphic Registration Using Fine and Coarse Strategies. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 186-197	0.9	2
101	Automatic extraction of the left atrial anatomy from MR for atrial fibrillation ablation <b>2009</b> ,		3
100	Robust segmentation of brain structures in MRI <b>2009</b> ,		3
99	Segmentation of subcortical structures and the hippocampus in brain MRI using graph-cuts and subject-specific a-priori information <b>2009</b> ,		5
98	4D motion modeling of the coronary arteries from CT images for robotic assisted minimally invasive surgery <b>2009</b> ,		3
97	Automatic segmentation of brain MRIs and mapping neuroanatomy across the human lifespan <b>2009</b> ,		1

96	Longitudinal regional brain volume changes quantified in normal aging and Alzheimer's APP x PS1 mice using MRI. <i>Brain Research</i> , <b>2009</b> , 1270, 19-32	3.7	77
95	Diffusion tensor imaging (DTI) of the brain in moving subjects: application to in-utero fetal and ex-utero studies. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 645-55	4.4	78
94	Atlas-based registration parameters in segmenting sub-cortical regions from brain MRI-images <b>2009</b> ,		1
93	Analysis of serial magnetic resonance images of mouse brains using image registration. <i>NeuroImage</i> , <b>2009</b> , 44, 692-700	7.9	23
92	Evaluation of 14 nonlinear deformation algorithms applied to human brain MRI registration. <i>NeuroImage</i> , <b>2009</b> , 46, 786-802	7.9	1603
91	Multi-atlas based segmentation of brain images: atlas selection and its effect on accuracy. <i>NeuroImage</i> , <b>2009</b> , 46, 726-38	7.9	666
90	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. <i>NeuroImage</i> , <b>2009</b> , 47, 1435-47	7.9	148
89	Non-rigid reconstruction of the beating heart surface for minimally invasive cardiac surgery. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 34-42	0.9	13
88	Tensor-based morphometry of fibrous structures with application to human brain white matter. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 466-73	0.9	2
87	Assessment of brain growth in early childhood using deformation-based morphometry. <i>NeuroImage</i> , <b>2008</b> , 39, 348-58	7.9	46
86	Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. <i>NeuroImage</i> , <b>2008</b> , 40, 672-684	7.9	239
85	Automated morphological analysis of magnetic resonance brain imaging using spectral analysis. <i>NeuroImage</i> , <b>2008</b> , 43, 225-35	7.9	28
84	Augmented reality image guidance for minimally invasive coronary artery bypass <b>2008</b> ,		5
83	Predicting the shapes of bones at a joint: application to the shoulder. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2008</b> , 11, 19-30	2.1	32
82	Construction of a patient-specific atlas of the brain: Application to normal aging <b>2008</b> ,		11
81	Automatic volumetry on MR brain images can support diagnostic decision making. <i>BMC Medical Imaging</i> , <b>2008</b> , 8, 9	2.9	13
80	Hierarchical statistical shape analysis and prediction of sub-cortical brain structures. <i>Medical Image Analysis</i> , <b>2008</b> , 12, 55-68	15.4	44
79	A novel algorithm for heart motion analysis based on geometric constraints. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 720-8	0.9	6

78	Spectral clustering as a diagnostic tool in cross-sectional MR studies: an application to mild dementia. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 442-9	0.9	1
77	Coronary Motion Modelling for Augmented Reality Guidance of Endoscopic Coronary Artery Bypass. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 197-202	0.9	1
76	Image Guidance for Robotic Minimally Invasive Coronary Artery Bypass. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 202-209	0.9	3
75	Comparison and evaluation of segmentation techniques for subcortical structures in brain MRI. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 409-16	0.9	28
74	Sample sufficiency and number of modes to retain in statistical shape modelling. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 425-33	0.9	3
73	Multivariate statistical analysis of whole brain structural networks obtained using probabilistic tractography. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 486-93	0.9	8
72	Evaluation of rigid and non-rigid motion compensation of cardiac perfusion MRI. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 35-43	0.9	16
71	Groupwise combined segmentation and registration for atlas construction <b>2007</b> , 10, 532-40		22
70	Segmentation of brain MRI in young children. <i>Academic Radiology</i> , <b>2007</b> , 14, 1350-66	4.3	39
69	MRI of moving subjects using multislice snapshot images with volume reconstruction (SVR): application to fetal, neonatal, and adult brain studies. <i>IEEE Transactions on Medical Imaging</i> , <b>2007</b> , 26, 967-80	11.7	144
68	Early growth in brain volume is preserved in the majority of preterm infants. <i>Annals of Neurology</i> , <b>2007</b> , 62, 185-92	9.4	79
67	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , <b>2007</b> , 2, 499-503	18.8	472
66	Multivariate Statistical Differences of MRI Samples of the Human Brain. <i>Journal of Mathematical Imaging and Vision</i> , <b>2007</b> , 29, 95-106	1.6	20
65	A multivariate statistical analysis of the developing human brain in preterm infants. <i>Image and Vision Computing</i> , <b>2007</b> , 25, 981-994	3.7	21
64	Guest Editorial Special Issue on Mathematical Modeling in Biomedical Image Analysis. <i>IEEE Transactions on Medical Imaging</i> , <b>2007</b> , 26, 1133-1135	11.7	
63	Segmentation of cardiac MR and CT image sequences using model-based registration of a 4D statistical model <b>2007</b> ,		8
62	Automated localization of periventricular and subcortical white matter lesions <b>2007</b> ,		2
61	Automatic detection and quantification of hippocampal atrophy on MRI in temporal lobe epilepsy: a proof-of-principle study. <i>NeuroImage</i> , <b>2007</b> , 36, 38-47	7.9	83



60	Automatic segmentation and reconstruction of the cortex from neonatal MRI. <i>NeuroImage</i> , <b>2007</b> , 38, 461-77	7.9	164
59	In-utero three dimension high resolution fetal brain diffusion tensor imaging <b>2007</b> , 10, 18-26		9
58	Automatic cortical segmentation in the developing brain. <i>Information Processing in Medical Imaging</i> , <b>2007</b> , 20, 257-69		13
57	Nonrigid image registration with subdivision lattices: application to cardiac MR image analysis <b>2007</b> , 10, 335-42		12
56	Classifier selection strategies for label fusion using large atlas databases <b>2007</b> , 10, 523-31		41
55	Similarity metrics for groupwise non-rigid registration <b>2007</b> , 10, 544-52		20
54	Beyond the g-factor limit in sensitivity encoding using joint histogram entropy. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 153-60	4.4	11
53	Extracting Discriminative Information from Medical Images: A Multivariate Linear Approach <b>2006</b> ,		1
52	Automatic quantification of changes in bone in serial MR images of joints. <i>IEEE Transactions on Medical Imaging</i> , <b>2006</b> , 25, 1617-26	11.7	10
51	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , <b>2006</b> , 31, 1487-505	7.9	4763
50	Cerebral atrophy measurements using Jacobian integration: comparison with the boundary shift integral. <i>NeuroImage</i> , <b>2006</b> , 32, 159-69	7.9	54
49	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. <i>NeuroImage</i> , <b>2006</b> , 32, 70-8	7.9	195
48	Automatic anatomical brain MRI segmentation combining label propagation and decision fusion. <i>NeuroImage</i> , <b>2006</b> , 33, 115-26	7.9	684
47	3D Statistical Shape Modeling of Long Bones. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 306-314	0.9	4
46	Diffeomorphic registration using B-splines. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 9, 702-9	0.9	142
45	Deformation Based Morphometry Analysis of Serial Magnetic Resonance Images of Mouse Brains. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 58-65	0.9	2
44	Statistical finite element model for bone shape and biomechanical properties. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 9, 405-11	0.9	13
43	Fast generation of digitally reconstructed radiographs using attenuation fields with application to 2D-3D image registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2005</b> , 24, 1441-54	11.7	89

42	Generalised overlap measures for assessment of pairwise and groupwise image registration and segmentation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 99-106	0.9	22
41	Simulation of cardiac pathologies using an electromechanical biventricular model and XMR interventional imaging. <i>Medical Image Analysis</i> , <b>2005</b> , 9, 467-80	15.4	51
40	Spatio-temporal free-form registration of cardiac MR image sequences. <i>Medical Image Analysis</i> , <b>2005</b> , 9, 441-56	15.4	101
39	Construction of a 4D statistical atlas of the cardiac anatomy and its use in classification. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 402-10	0.9	42
38	A comparison of the tissue classification and the segmentation propagation techniques in MRI brain image segmentation <b>2005</b> ,		2
37	Detecting and Comparing the Onset of Myocardial Activation and Regional Motion Changes in Tagged MR for XMR-Guided RF Ablation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 348-358	0.9	2
36	Fast Spatio-temporal Free-Form Registration of Cardiac MR Image Sequences. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 414-424	0.9	1
35	3D/4D Cardiac Segmentation Using Active Appearance Models, Non-rigid Registration, and the Insight Toolkit. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 419-426	0.9	5
34	Segmentation of 4D cardiac MR images using a probabilistic atlas and the EM algorithm. <i>Medical Image Analysis</i> , <b>2004</b> , 8, 255-65	15.4	219
33	Registration-based interpolation. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 922-6	11.7	69
32	Analysis of 3-D myocardial motion in tagged MR images using nonrigid image registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 1245-50	11.7	114
31	Spatial transformation of motion and deformation fields using nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 1065-76	11.7	44
30	XMR guided cardiac electrophysiology study and radio frequency ablation <b>2004</b> , 5369, 10		10
29	Using a Maximum Uncertainty LDA-Based Approach to Classify and Analyse MR Brain Images. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 291-300	0.9	12
28	Detecting regional changes in myocardial contraction patterns using MRI <b>2004</b> ,		4
27	Spatio-Temporal Free-Form Registration of Cardiac MR Image Sequences. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 911-919	0.9	9
26	A Framework for Detailed Objective Comparison of Non-rigid Registration Algorithms in Neuroimaging. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 679-686	0.9	19
25	Simulation of the Electromechanical Activity of the Heart Using XMR Interventional Imaging. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 786-794	0.9	6

24	Fast calculation of digitally reconstructed radiographs using light fields <b>2003</b> ,		18
23	Automatic construction of 3-D statistical deformation models of the brain using nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2003</b> , 22, 1014-25	11.7	284
22	Registration and tracking to integrate X-ray and MR images in an XMR facility. <i>IEEE Transactions on Medical Imaging</i> , <b>2003</b> , 22, 1369-78	11.7	97
21	Non-rigid Spatio-Temporal Alignment of 4D Cardiac MR Images. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 191-200	0.9	4
20	Spatio-temporal Alignment of 4D Cardiac MR Images. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 205-214	0.9	10
19	Analysis of myocardial motion in tagged MR images using nonrigid image registration <b>2002</b> ,		24
18	Parameterizing reconfigurable designs for image warping <b>2002</b> ,		3
17	Automated camera calibration for image-guided surgery using intensity-based registration <b>2002</b> , 4681, 463		1
16	Automatic construction of multiple-object three-dimensional statistical shape models: application to cardiac modeling. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 1151-66	11.7	244
15	Nonrigid Registration. <i>Biomedical Engineering Series</i> , <b>2001</b> , 281-301		23
14	A Generic Framework for Non-rigid Registration Based on Non-uniform Multi-level Free-Form Deformations. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 573-581	0.9	131
13	Automatic 3D ASM Construction via Atlas-Based Landmarking and Volumetric Elastic Registration. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 78-91	0.9	36
12	Comparison and evaluation of rigid, affine, and nonrigid registration of breast MR images. <i>Journal of Computer Assisted Tomography</i> , <b>1999</b> , 23, 800-5	2.2	87
11	Motion and deformation tracking for short-axis echo-planar myocardial perfusion imaging. <i>Medical Image Analysis</i> , <b>1998</b> , 2, 285-302	15.4	27
10	Respiratory Motion Correction for 2D Cine Cardiac MR Images using Probabilistic Edge Maps		2
9	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity		8
8	Unbiased construction of a temporally consistent morphological atlas of neonatal brain development		21
7	Limited One-time Sampling Irregularity Map (LOTS-IM): Automatic Unsupervised Quantitative Assessment of White Matter Hyperintensities in Structural Brain Magnetic Resonance Images		4

6	Genomic analysis reveals a functional role for myocardial trabeculae in adults	1
5	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging	1
4	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants	5
3	Multimodal Surface Matching with Higher-Order Smoothness Constraints?	1
2	Genetic and environmental determinants of diastolic heart function	1
1	Outcomes and phenotypic expression of rare variants in hypertrophic cardiomyopathy genes amongst UK Biobank participants	1