Daniel Rueckert

List of Publications by Year
in descending order

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582 papers	48,135 citations	2101 100 h-index	2895 190 g-index
613 all docs	613 docs citations	613 times ranked	39393 citing authors

#	Article	IF	Citations
1	Prediction of complications and surgery duration in primary TKA with high accuracy using machine learning with arthroplasty-specific data. Knee Surgery, Sports Traumatology, Arthroscopy, 2023, 31, 1323-1333.	4.2	20
2	Developing and validating a multivariable prediction model which predicts progression of intermediate to late age-related macular degenerationâ€"the PINNACLE trial protocol. Eye, 2023, 37, 1275-1283.	2.1	9
3	Learning a Model-Driven Variational Network for Deformable Image Registration. IEEE Transactions on Medical Imaging, 2022, 41, 199-212.	8.9	9
4	Exploring a new paradigm for the fetal anomaly ultrasound scan: Artificial intelligence in real time. Prenatal Diagnosis, 2022, 42, 49-59.	2.3	16
5	Zen and the art of model adaptation: Low-utility-cost attack mitigations in collaborative machine learning. Proceedings on Privacy Enhancing Technologies, 2022, 2022, 274-290.	2.8	4
6	Neurocognitive correlates of probable posttraumatic stress disorder following traumatic brain injury. Brain and Spine, 2022, 2, 100854.	0.1	5
7	Video Summarization Through Reinforcement Learning With a 3D Spatio-Temporal U-Net. IEEE Transactions on Image Processing, 2022, 31, 1573-1586.	9.8	40
8	Machine learning in knee arthroplasty: specific data are keyâ€"a systematic review. Knee Surgery, Sports Traumatology, Arthroscopy, 2022, 30, 376-388.	4.2	30
9	sPLINK: a hybrid federated tool as a robust alternative to meta-analysis in genome-wide association studies. Genome Biology, 2022, 23, 32.	8.8	18
10	Effect of frailty on 6-month outcome after traumatic brain injury: a multicentre cohort study with external validation. Lancet Neurology, The, 2022, 21, 153-162.	10.2	34
11	Self-Supervised Learning for Few-Shot Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 1837-1848.	8.9	35
12	AI-Based Reconstruction for Fast MRIâ€"A Systematic Review and Meta-Analysis. Proceedings of the IEEE, 2022, 110, 224-245.	21.3	57
13	Artificial Intelligence in Medicine and Privacy Preservation. , 2022, , 145-158.		0
14	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 16.	3.3	30
15	Concept of the Munich/Augsburg Consortium Precision in Mental Health for the German Center of Mental Health. Frontiers in Psychiatry, 2022, 13, 815718.	2.6	2
16	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes. Developmental Cognitive Neuroscience, 2022, 54, 101103.	4.0	11
17	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis. Neurocritical Care, 2022, 36, 927-941.	2.4	4
18	Effects of gestational age at birth on perinatal structural brain development in healthy termâ€born babies. Human Brain Mapping, 2022, 43, 1577-1589.	3.6	3

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19	Prediction of Complications and Surgery Duration in Primary Total Hip Arthroplasty Using Machine Learning: The Necessity of Modified Algorithms and Specific Data. Journal of Clinical Medicine, 2022, 11, 2147.	2.4	7
20	Genetic and environmental determinants of diastolic heart function. , 2022, 1, 361-371.		12
21	Multi-Modal Unsupervised Brain Image Registration Using Edge Maps. , 2022, , .		3
22	Harnessing feature extraction capacities from a pre-trained convolutional neural network (VGG-16) for the unsupervised distinction of aortic outflow velocity profiles in patients with severe aortic stenosis. European Heart Journal Digital Health, 2022, 3, 153-168.	1.7	6
23	Surgery versus conservative treatment for traumatic acute subdural haematoma: a prospective, multicentre, observational, comparative effectiveness study. Lancet Neurology, The, 2022, 21, 620-631.	10.2	26
24	Serum metabolome associated with severity of acute traumatic brain injury. Nature Communications, 2022, 13, 2545.	12.8	29
25	Predicting age and clinical risk from the neonatal connectome. NeuroImage, 2022, 257, 119319.	4.2	11
26	Privacy: An Axiomatic Approach. Entropy, 2022, 24, 714.	2.2	3
27	The Developing Human Connectome Project Neonatal Data Release. Frontiers in Neuroscience, 2022, 16, .	2.8	42
28	Health care utilization and outcomes in older adults after Traumatic Brain Injury: A CENTER-TBI study. Injury, 2022, 53, 2774-2782.	1.7	11
29	The developing brain structural and functional connectome fingerprint. Developmental Cognitive Neuroscience, 2022, 55, 101117.	4.0	5
30	Cardiac segmentation on late gadolinium enhancement MRI: A benchmark study from multi-sequence cardiac MR segmentation challenge. Medical Image Analysis, 2022, 81, 102528.	11.6	22
31	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. Journal of Neurotrauma, 2021, 38, 196-209.	3.4	20
32	Differences between Men and Women in Treatment and Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 235-251.	3.4	39
33	Late-Gadolinium Enhancement Interface Area and Electrophysiological Simulations Predict Arrhythmic Events in Patients With Nonischemic Dilated Cardiomyopathy. JACC: Clinical Electrophysiology, 2021, 7, 238-249.	3.2	13
34	Frequency of fatigue and its changes in the first 6Âmonths after traumatic brain injury: results from the CENTER-TBI study. Journal of Neurology, 2021, 268, 61-73.	3.6	12
35	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	11.6	150
36	Automated analysis and detection of abnormalities in transaxial anatomical cardiovascular magnetic resonance images: a proof of concept study with potential to optimize image acquisition. International Journal of Cardiovascular Imaging, 2021, 37, 1033-1042.	1.5	6

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37	Global Characterisation of Coagulopathy in Isolated Traumatic Brain Injury (iTBI): A CENTER-TBI Analysis. Neurocritical Care, 2021, 35, 184-196.	2.4	21
38	<scp>T1</scp>, <scp>T2,</scp> and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. Journal of Magnetic Resonance Imaging, 2021, 53, 1253-1265.	3.4	27
39	CAS-Net: Conditional Atlas Generation and Brain Segmentation for Fetal MRI. Lecture Notes in Computer Science, 2021, , 221-230.	1.3	2
40	Evaluation of the Robustness of Learned MR Image Reconstruction to Systematic Deviations Between Training and Test Data for the Models from the fastMRI Challenge. Lecture Notes in Computer Science, 2021, , 25-34.	1.3	3
41	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. Lecture Notes in Computer Science, 2021, , 264-272.	1.3	5
42	Artificial Intelligence in Medicine and Privacy Preservation. , 2021, , 1-14.		1
43	Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 149-159.	1.3	12
44	Joint Motion Correction and Super Resolution for Cardiac Segmentation viaÂLatent Optimisation. Lecture Notes in Computer Science, 2021, , 14-24.	1.3	9
45	Mutual Information-Based Disentangled Neural Networks for Classifying Unseen Categories in Different Domains: Application to Fetal Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 722-734.	8.9	28
46	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. Npj Digital Medicine, 2021, 4, 60.	10.9	134
47	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. Brain, 2021, 144, 2199-2213.	7.6	75
48	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. Cerebral Cortex, 2021, 31, 3665-3677.	2.9	19
49	De Novo Radiomics Approach Using Image Augmentation and Features From T1 Mapping to Predict Gleason Scores in Prostate Cancer. Investigative Radiology, 2021, 56, 661-668.	6.2	18
50	Dynamic Spatio-Temporal Graph Convolutional Networks For Cardiac Motion Analysis. , 2021, , .		7
51	End-to-end privacy preserving deep learning on multi-institutional medical imaging. Nature Machine Intelligence, 2021, 3, 473-484.	16.0	157
52	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	21.3	339
53	Systematic evaluation of iterative deep neural networks for fast parallel MRI reconstruction with sensitivityâ€weighted coil combination. Magnetic Resonance in Medicine, 2021, 86, 1859-1872.	3.0	39
54	Medical imaging deep learning with differential privacy. Scientific Reports, 2021, 11, 13524.	3.3	52

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55	Missing Data in Prediction Research: A Five-Step Approach for Multiple Imputation, Illustrated in the CENTER-TBI Study. Journal of Neurotrauma, 2021, 38, 1842-1857.	3.4	16
56	Complementary timeâ€frequency domain networks for dynamic parallel MR image reconstruction. Magnetic Resonance in Medicine, 2021, 86, 3274-3291.	3.0	21
57	Incidental findings on brain MR imaging of asymptomatic term neonates in the Developing Human Connectome Project. EClinicalMedicine, 2021, 38, 100984.	7.1	16
58	Efficient, high-performance semantic segmentation using multi-scale feature extraction. PLoS ONE, 2021, 16, e0255397.	2.5	9
59	Occurrence and timing of withdrawal of life-sustaining measures in traumatic brain injury patients: a CENTER-TBI study. Intensive Care Medicine, 2021, 47, 1115-1129.	8.2	31
60	Primary versus early secondary referral to a specialized neurotrauma center in patients with moderate/severe traumatic brain injury: a CENTER TBI study. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2021, 29, 113.	2.6	8
61	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury. JAMA Neurology, 2021, 78, 1137.	9.0	53
62	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2021, 78, 1097-1110.	2.8	55
63	AI for Doctorsâ€"A Course to Educate Medical Professionals in Artificial Intelligence for Medical Imaging. Healthcare (Switzerland), 2021, 9, 1278.	2.0	16
64	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. Nature Machine Intelligence, 2021, 3, 749-758.	16.0	26
65	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. NeuroImage, 2021, 243, 118488.	4.2	40
66	Transductive Image Segmentation: Self-training and Effect of Uncertainty Estimation. Lecture Notes in Computer Science, 2021, , 79-89.	1.3	0
67	Detecting Hypo-plastic Left Heart Syndrome in Fetal Ultrasound via Disease-Specific Atlas Maps. Lecture Notes in Computer Science, 2021, , 207-217.	1.3	8
68	Improving Phenotype Prediction Using Long-Range Spatio-Temporal Dynamics of Functional Connectivity. Lecture Notes in Computer Science, 2021, , 145-154.	1.3	3
69	Deep Learningâ€Based Automated Abdominal Organ Segmentation in the UK Biobank and German National Cohort Magnetic Resonance Imaging Studies. Investigative Radiology, 2021, 56, 401-408.	6.2	30
70	Reducing Textural Bias Improves Robustness of Deep Segmentation Models. Lecture Notes in Computer Science, 2021, , 294-304.	1.3	1
71	Explaining Outcome Differences between Men and Women following Mild Traumatic Brain Injury. Journal of Neurotrauma, 2021, 38, 3315-3331.	3.4	34
72	Questionnaires vs Interviews for the Assessment of Global Functional Outcomes After Traumatic Brain Injury. JAMA Network Open, 2021, 4, e2134121.	5.9	5

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73	Flimma: a federated and privacy-aware tool for differential gene expression analysis. Genome Biology, 2021, 22, 338.	8.8	10
74	Motion-Guided Physics-Based Learning for Cardiac MRI Reconstruction. , 2021, , .		8
75	Can We Cluster ICU Treatment Strategies for Traumatic Brain Injury by Hospital Treatment Preferences?. Neurocritical Care, 2021, , 1.	2.4	3
76	Global Burden of Small Vessel Diseaseâ€“Related Brain Changes on MRI Predicts Cognitive and Functional Decline. Stroke, 2020, 51, 170-178.	2.0	115
77	Model-Based and Data-Driven Strategies in Medical Image Computing. Proceedings of the IEEE, 2020, 108, 110-124.	21.3	30
78	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. IEEE Transactions on Medical Imaging, 2020, 39, 2088-2099.	8.9	34
79	Waterâ€“fat Dixon cardiac magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 83, 2107-2123.	3.0	48
80	Prognostic Validation of the NINDS Common Data Elements for the Radiologic Reporting of Acute Traumatic Brain Injuries: A CENTER-TBI Study. Journal of Neurotrauma, 2020, 37, 1269-1282.	3.4	10
81	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. Computerized Medical Imaging and Graphics, 2020, 79, 101685.	5.8	12
82	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. NeuroImage: Clinical, 2020, 28, 102423.	2.7	14
83	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants. NeuroImage, 2020, 223, 117303.	4.2	81
84	Predictors of Access to Rehabilitation in the Year Following Traumatic Brain Injury: A European Prospective and Multicenter Study. Neurorehabilitation and Neural Repair, 2020, 34, 814-830.	2.9	12
85	Tracheal intubation in traumatic brain injury: a multicentre prospective observational study. British Journal of Anaesthesia, 2020, 125, 505-517.	3.4	19
86	CINENet: deep learning-based 3D cardiac CINE MRI reconstruction with multi-coil complex-valued 4D spatio-temporal convolutions. Scientific Reports, 2020, 10, 13710.	3.3	122
87	Discriminating electrocardiographic responses to His-bundle pacing using machine learning. Cardiovascular Digital Health Journal, 2020, 1, 11-20.	1.3	10
88	Volume Change in Frontal Cholinergic Structures After Traumatic Brain Injury and Cognitive Outcome. Frontiers in Neurology, 2020, 11, 832.	2.4	5
89	A population-based phenome-wide association study of cardiac and aortic structure and function. Nature Medicine, 2020, 26, 1654-1662.	30.7	98
90	A dataâ€driven approach to optimising the encoding for multiâ€shell diffusion MRI with application to neonatal imaging. NMR in Biomedicine, 2020, 33, e4348.	2.8	18

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91	Investigating altered brain development in infants with congenital heart disease using tensor-based morphometry. Scientific Reports, 2020, 10, 14909.	3.3	17
92	Genetic and functional insights into the fractal structure of the heart. Nature, 2020, 584, 589-594.	27.8	86
93	Multiclass semantic segmentation and quantification of traumatic brain injury lesions on head CT using deep learning: an algorithm development and multicentre validation study. The Lancet Digital Health, 2020, 2, e314-e322.	12.3	83
94	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. Journal of Neurotrauma, 2020, 37, 2069-2080.	3.4	22
95	Parental age effects on neonatal white matter development. NeuroImage: Clinical, 2020, 27, 102283.	2.7	12
96	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. Cerebral Cortex, 2020, 30, 5767-5779.	2.9	42
97	Secure, privacy-preserving and federated machine learning in medical imaging. Nature Machine Intelligence, 2020, 2, 305-311.	16.0	473
98	Deep Learning for Cardiac Image Segmentation: A Review. Frontiers in Cardiovascular Medicine, 2020, 7, 25.	2.4	467
99	Improving ultrasound video classification: an evaluation of novel deep learning methods in echocardiography. Journal of Medical Artificial Intelligence, 2020, 3, 4-4.	1.1	31
100	Sparse Dataâ€“Driven Learning for Effective and Efficient Biomedical Image Segmentation. Annual Review of Biomedical Engineering, 2020, 22, 127-153.	12.3	3
101	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. Frontiers in Cardiovascular Medicine, 2020, 7, 105.	2.4	74
102	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. Scientific Reports, 2020, 10, 2408.	3.3	22
103	Heterogeneity in Brain Microstructural Development Following Preterm Birth. Cerebral Cortex, 2020, 30, 4800-4810.	2.9	54
104	Evaluating severity of white matter lesions from computed tomography images with convolutional neural network. Neuroradiology, 2020, 62, 1257-1263.	2.2	8
105	Deep Learning for Cardiac Motion Estimation: Supervised vs. Unsupervised Training. Lecture Notes in Computer Science, 2020, , 186-194.	1.3	6
106	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. Communications in Computer and Information Science, 2020, , 294-306.	0.5	5
107	Self-supervision with Superpixels: Training Few-Shot Medical Image Segmentation Without Annotation. Lecture Notes in Computer Science, 2020, , 762-780.	1.3	83
108	Realistic Adversarial Data Augmentation for MR Image Segmentation. Lecture Notes in Computer Science, 2020, , 667-677.	1.3	32

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109	Biomechanics-Informed Neural Networks for Myocardial Motion Tracking in MRI. Lecture Notes in Computer Science, 2020, , 296-306.	1.3	9
110	Ultrasound Video Summarization Using Deep Reinforcement Learning. Lecture Notes in Computer Science, 2020, , 483-492.	1.3	17
111	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. Lecture Notes in Computer Science, 2020, , 88-97.	1.3	9
112	Image-Level Harmonization of Multi-site Data Using Image-and-Spatial Transformer Networks. Lecture Notes in Computer Science, 2020, , 710-719.	1.3	9
113	Unsupervised Cross-domain Image Classification by Distance Metric Guided Feature Alignment. Lecture Notes in Computer Science, 2020, , 146-157.	1.3	5
114	Automated Detection of Congenital Heart Disease in Fetal Ultrasound Screening. Lecture Notes in Computer Science, 2020, , 243-252.	1.3	5
115	Patch-Based Brain Age Estimation fromÂMRÂImages. Lecture Notes in Computer Science, 2020, , 98-107.	1.3	11
116	Communicative Reinforcement Learning Agents for Landmark Detection in Brain Images. Lecture Notes in Computer Science, 2020, , 177-186.	1.3	8
117	Informed consent procedures in patients with an acute inability to provide informed consent: Policy and practice in the CENTER-TBI study. Journal of Critical Care, 2020, 59, 6-15.	2.2	8
118	A Systematic Comparison of Encrypted Machine Learning Solutions for Image Classification. , 2020, , .		12
119	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. PLoS Biology, 2020, 18, e3000976.	5.6	38
120	Interpretable Deep Models for Cardiac Resynchronisation Therapy Response Prediction. Lecture Notes in Computer Science, 2020, 2020, 284-293.	1.3	14
121	Transfer Learning for Brain Segmentation: Pre-task Selection and Data Limitations. Communications in Computer and Information Science, 2020, , 118-130.	0.5	3
122	Spatial Semantic-Preserving Latent Space Learning for Accelerated DWI Diagnostic Report Generation. Lecture Notes in Computer Science, 2020, , 333-342.	1.3	2
123	Assessing the Impact of Blood Pressure on Cardiac Function Using Interpretable Biomarkers and Variational Autoencoders. Lecture Notes in Computer Science, 2020, , 22-30.	1.3	1
124	Geometric Deep Learning for Post-Menstrual Age Prediction Based on the Neonatal White Matter Cortical Surface. Lecture Notes in Computer Science, 2020, , 174-186.	1.3	5
125	Convolutional Recurrent Neural Networks for Dynamic MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 280-290.	8.9	362
126	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. NeuroImage, 2019, 185, 750-763.	4.2	127

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127	Ageâ€related craniofacial differences based on spatioâ€temporal face image atlases. IET Image Processing, 2019, 13, 1561-1568.	2.5	0
128	Sex and regional differences in myocardial plasticity in aortic stenosis are revealed by 3D model machine learning. European Heart Journal Cardiovascular Imaging, 2019, 21, 417-427.	1.2	7
129	Unsupervised Deformable Registration for Multi-modal Images via Disentangled Representations. Lecture Notes in Computer Science, 2019, , 249-261.	1.3	59
130	Self-supervised learning for medical image analysis using image context restoration. Medical Image Analysis, 2019, 58, 101539.	11.6	315
131	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	3.3	157
132	Scar shape analysis and simulated electrical instabilities in a non-ischemic dilated cardiomyopathy patient cohort. PLoS Computational Biology, 2019, 15, e1007421.	3.2	10
133	3D High-Resolution Cardiac Segmentation Reconstruction From 2D Views Using Conditional Variational Autoencoders. , 2019, , .		11
134	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. Lancet Neurology, The, 2019, 18, 923-934.	10.2	304
135	Brain Connectivity Measures Improve Modeling of Functional Outcome After Acute Ischemic Stroke. Stroke, 2019, 50, 2761-2767.	2.0	24
136	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e009214.	2.6	75
137	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi- Task Deep Learning Approach. IEEE Transactions on Medical Imaging, 2019, 38, 2151-2164.	8.9	155
138	Attention gated networks: Learning to leverage salient regions in medical images. Medical Image Analysis, 2019, 53, 197-207.	11.6	1,011
139	Computational anatomy for multi-organ analysis in medical imaging: A review. Medical Image Analysis, 2019, 56, 44-67.	11.6	48
140	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. Medical Image Analysis, 2019, 55, 136-147.	11.6	71
141	Weakly Supervised Estimation of Shadow Confidence Maps in Fetal Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2755-2767.	8.9	38
142	Impact of a clinical decision support tool on prediction of progression in early-stage dementia: a prospective validation study. Alzheimer's Research and Therapy, 2019, 11, 25.	6.2	23
143	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 18.	3.3	78
144	Cardiac Rhythm Device Identification Using Neural Networks. JACC: Clinical Electrophysiology, 2019, 5, 576-586.	3.2	36

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145	Ventricular remodeling in preterm infants: computational cardiac magnetic resonance atlasing shows significant early remodeling of the left ventricle. Pediatric Research, 2019, 85, 807-815.	2.3	41
146	Evaluating reinforcement learning agents for anatomical landmark detection. Medical Image Analysis, 2019, 53, 156-164.	11.6	121
147	Impact of a Clinical Decision Support Tool on Dementia Diagnostics in Memory Clinics: The PredictND Validation Study. Current Alzheimer Research, 2019, 16, 91-101.	1.4	23
148	Deep-learning cardiac motion analysis for human survival prediction. Nature Machine Intelligence, 2019, 1, 95-104.	16.0	179
149	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	3.3	43
150	Metabolic pathways associated with right ventricular adaptation to pulmonary hypertension: 3D analysis of cardiac magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2019, 20, 668-676.	1.2	13
151	Learning-Based Quality Control for Cardiac MR Images. IEEE Transactions on Medical Imaging, 2019, 38, 1127-1138.	8.9	42
152	Central versus Local Radiological Reading of Acute Computed Tomography Characteristics in Multi-Center Traumatic Brain Injury Research. Journal of Neurotrauma, 2019, 36, 1080-1092.	3.4	30
153	k-t NEXT: Dynamic MR Image Reconstruction Exploiting Spatio-Temporal Correlations. Lecture Notes in Computer Science, 2019, , 505-513.	1.3	18
154	Learning Shape Priors for Robust Cardiac MR Segmentation from Multi-view Images. Lecture Notes in Computer Science, 2019, , 523-531.	1.3	28
155	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. Lecture Notes in Computer Science, 2019, , 541-549.	1.3	78
156	Data Efficient Unsupervised Domain Adaptation For Cross-modality Image Segmentation. Lecture Notes in Computer Science, 2019, , 669-677.	1.3	59
157	Multiple Landmark Detection Using Multi-agent Reinforcement Learning. Lecture Notes in Computer Science, 2019, , 262-270.	1.3	34
158	Detection and Correction of Cardiac MRI Motion Artefacts During Reconstruction from k-space. Lecture Notes in Computer Science, 2019, , 695-703.	1.3	16
159	Exploiting Motion for Deep Learning Reconstruction of Extremely-Undersampled Dynamic MRI. Lecture Notes in Computer Science, 2019, , 704-712.	1.3	15
160	VS-Net: Variable Splitting Network for Accelerated Parallel MRI Reconstruction. Lecture Notes in Computer Science, 2019, , 713-722.	1.3	42
161	Intelligent Image Synthesis to Attack a Segmentation CNN Using Adversarial Learning. Lecture Notes in Computer Science, 2019, , 90-99.	1.3	12
162	Representation Disentanglement for Multi-task Learning with Application to Fetal Ultrasound. Lecture Notes in Computer Science, 2019, , 47-55.	1.3	3

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163	Flexible Conditional Image Generation of Missing Data with Learned Mental Maps. Lecture Notes in Computer Science, 2019, , 139-150.	1.3	0
164	Dynamic patterns of cortical expansion during folding of the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3156-3161.	7.1	94
165	Automatic MRI Quantifying Methods in Behavioral-Variant Frontotemporal Dementia Diagnosis. Dementia and Geriatric Cognitive Disorders Extra, 2018, 8, 51-59.	1.3	19
166	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. NeuroImage, 2018, 173, 88-112.	4.2	315
167	A Deep Cascade of Convolutional Neural Networks for Dynamic MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 491-503.	8.9	816
168	Multi-Atlas Segmentation Using Partially Annotated Data: Methods and Annotation Strategies. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1683-1696.	13.9	8
169	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. IEEE Transactions on Medical Imaging, 2018, 37, 384-395.	8.9	493
170	A large margin algorithm for automated segmentation of white matter hyperintensity. Pattern Recognition, 2018, 77, 150-159.	8.1	19
171	Metric learning with spectral graph convolutions on brain connectivity networks. NeuroImage, 2018, 169, 431-442.	4.2	237
172	3-D Reconstruction in Canonical Co-Ordinate Space From Arbitrarily Oriented 2-D Images. IEEE Transactions on Medical Imaging, 2018, 37, 1737-1750.	8.9	60
173	Human brain mapping: A systematic comparison of parcellation methods for the human cerebral cortex. NeuroImage, 2018, 170, 5-30.	4.2	280
174	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	6.3	61
175	Distortion Correction in Fetal EPI Using Non-Rigid Registration With a Laplacian Constraint. IEEE Transactions on Medical Imaging, 2018, 37, 12-19.	8.9	20
176	A review on automatic fetal and neonatal brain MRI segmentation. NeuroImage, 2018, 170, 231-248.	4.2	143
177	Myocardial strain computed at multiple spatial scales from tagged magnetic resonance imaging: Estimating cardiac biomarkers for CRT patients. Medical Image Analysis, 2018, 43, 169-185.	11.6	7
178	Three-dimensional cardiovascular imaging-genetics: a mass univariate framework. Bioinformatics, 2018, 34, 97-103.	4.1	34
179	Multimodal surface matching with higher-order smoothness constraints. NeuroImage, 2018, 167, 453-465.	4.2	219
180	Human-level Performance On Automatic Head Biometrics In Fetal Ultrasound Using Fully Convolutional Neural Networks. , 2018, 2018, 714-717.		37

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181	Combining Deep Learning and Shape Priors for Bi-Ventricular Segmentation of Volumetric Cardiac Magnetic Resonance Images. Lecture Notes in Computer Science, 2018, , 258-267.	1.3	3
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