Alejandro Frangi Caregnato

List of Publications by Year
in descending order

565 papers	21,466 citations	20036 63 h-index	15698 129 g-index
584 all docs	584 docs citations	584 times ranked	21604 citing authors

#	Article	IF	Citations
1	Multicenter and Multichannel Pooling GCN for Early AD Diagnosis Based on Dual-Modality Fused Brain Network. IEEE Transactions on Medical Imaging, 2023, 42, 354-367.	5.4	22
2	Parkinsonâ€™s Disease Classification and Clinical Score Regression via United Embedding and Sparse Learning From Longitudinal Data. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3357-3371.	7.2	12
3	A probabilistic deep motion model for unsupervised cardiac shape anomaly assessment. Medical Image Analysis, 2022, 75, 102276.	7.0	5
4	MICaps: Multi-instance capsule network for machine inspection of Munro's microabscess. Computers in Biology and Medicine, 2022, 140, 105071.	3.9	4
5	Guest Editorial Generative Adversarial Networks in Biomedical Image Computing. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4-6.	3.9	0
6	Predicting myocardial infarction through retinal scans and minimal personal information. Nature Machine Intelligence, 2022, 4, 55-61.	8.3	30
7	Learning to complete incomplete hearts for population analysis of cardiac MR images. Medical Image Analysis, 2022, 77, 102354.	7.0	1
8	An Open Access Chamber Designed for the Acoustic Characterisation of Microbubbles. Applied Sciences (Switzerland), 2022, 12, 1818.	1.3	2
9	Guest Editorial Special Section on Surgical Vision, Navigation, and Robotics. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 2-4.	2.1	0
10	Discovery of Pre-Treatment FDG PET/CT-Derived Radiomics-Based Models for Predicting Outcome in Diffuse Large B-Cell Lymphoma. Cancers, 2022, 14, 1711.	1.7	8
11	What is next for screening for undiagnosed atrial fibrillation? Artificial intelligence may hold the key. European Heart Journal Quality of Care & Clinical Outcomes, 2022, 8, 391-397.	1.8	2
12	Automatic 3D+t four-chamber CMR quantification of the UK biobank: integrating imaging and non-imaging data priors at scale. Medical Image Analysis, 2022, 80, 102498.	7.0	7
13	The Pitfalls of Using Open Data to Develop Deep Learning Solutions for COVID-19 Detection in Chest X-Rays. Studies in Health Technology and Informatics, 2022, , .	0.2	1
14	Image imputation in cardiac MRI and quality assessment. , 2022, , 347-367.		0
15	Diagnosis of early Alzheimerâ€™s disease based on dynamic high order networks. Brain Imaging and Behavior, 2021, 15, 276-287.	1.1	36
16	Recovering from missing data in population imaging â€“ Cardiac MR image imputation via conditional generative adversarial nets. Medical Image Analysis, 2021, 67, 101812.	7.0	14
17	Tissue microarray (TMA) use in post mortem neuropathology. Journal of Neuroscience Methods, 2021, 347, 108963.	1.3	4
18	Intrinsic layer based automatic specular reflection detection in endoscopic images. Computers in Biology and Medicine, 2021, 128, 104106.	3.9	11

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19	An automatic framework for endoscopic image restoration and enhancement. Applied Intelligence, 2021, 51, 1959-1971.	3.3	12
20	CS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msup><mml:mrow /><mml:mn>2</mml:mn></mml:msup></mml:math>-Net: Deep learning segmentation of curvilinear structures in medical imaging. Medical Image Analysis, 2021, 67, 101874.	7.0	166
21	Statistical Dependency Guided Contrastive Learning for Multiple Labeling in Prenatal Ultrasound. Lecture Notes in Computer Science, 2021, , 190-198.	1.0	1
22	Self Context and Shape Prior for Sensorless Freehand 3D Ultrasound Reconstruction. Lecture Notes in Computer Science, 2021, , 201-210.	1.0	13
23	Style Curriculum Learning for Robust Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 451-460.	1.0	6
24	Modality Completion via Gaussian Process Prior Variational Autoencoders for Multi-modal Glioma Segmentation. Lecture Notes in Computer Science, 2021, , 442-452.	1.0	8
25	A Deep Discontinuity-Preserving Image Registration Network. Lecture Notes in Computer Science, 2021, , 46-55.	1.0	9
26	Flip Learning: Erase to Segment. Lecture Notes in Computer Science, 2021, , 493-502.	1.0	2
27	Image-Derived Phenotype Extraction for Genetic Discovery via Unsupervised Deep Learning in CMR Images. Lecture Notes in Computer Science, 2021, , 699-708.	1.0	8
28	Baseline PET/CT imaging parameters for prediction of treatment outcome in Hodgkin and diffuse large B cell lymphoma: a systematic review. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 3198-3220.	3.3	44
29	A Comparative Study of Spatio-Temporal U-Nets for Tissue Segmentation in Surgical Robotics. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 53-63.	2.1	8
30	Real-time coronary artery stenosis detection based on modern neural networks. Scientific Reports, 2021, 11, 7582.	1.6	20
31	Graph convolution network with similarity awareness and adaptive calibration for disease-induced deterioration prediction. Medical Image Analysis, 2021, 69, 101947.	7.0	53
32	Generalize Ultrasound Image Segmentation Via Instant And Plug & Play Style Transfer. , 2021, , .		5
33	OpenMandible: An open-source framework for highly realistic numerical modelling of lower mandible physiology. Dental Materials, 2021, 37, 612-624.	1.6	7
34	Analysis of Deep Neural Networks for Detection of Coronary Artery Stenosis. Programming and Computer Software, 2021, 47, 153-160.	0.5	4
35	In-silico trial of intracranial flow diverters replicates and expands insights from conventional clinical trials. Nature Communications, 2021, 12, 3861.	5.8	25
36	Dual attention enhancement feature fusion network for segmentation and quantitative analysis of paediatric echocardiography. Medical Image Analysis, 2021, 71, 102042.	7.0	30

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37	Interdisciplinary research: shaping the healthcare of the future. Future Healthcare Journal, 2021, 8, e218-e223.	0.6	14
38	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. Medical Image Analysis, 2021, 71, 102037.	7.0	33
39	Medical imaging and computational image analysis in COVID-19 diagnosis: A review. Computers in Biology and Medicine, 2021, 135, 104605.	3.9	26
40	Automatic segmentation of left and right ventricles in cardiac MRI using 3D-ASM and deep learning. Signal Processing: Image Communication, 2021, 96, 116303.	1.8	6
41	A fast boundary-finite element approach for estimating anchor losses in Micro-Electro-Mechanical System resonators. Applied Mathematical Modelling, 2021, 97, 741-753.	2.2	8
42	Contrastive rendering with semi-supervised learning for ovary and follicle segmentation from 3D ultrasound. Medical Image Analysis, 2021, 73, 102134.	7.0	9
43	Auto-weighted centralised multi-task learning via integrating functional and structural connectivity for subjective cognitive decline diagnosis. Medical Image Analysis, 2021, 74, 102248.	7.0	8
44	Shape registration with learned deformations for 3D shape reconstruction from sparse and incomplete point clouds. Medical Image Analysis, 2021, 74, 102228.	7.0	17
45	Origami: Single-cell 3D shape dynamics oriented along the apico-basal axis of folding epithelia from fluorescence microscopy data. PLoS Computational Biology, 2021, 17, e1009063.	1.5	2
46	13â€...The association between cardiovascular risk factors and left atrial structure and phasic function. , 2021, , .		0
47	Predicting patient-level new-onset atrial fibrillation from population-based nationwide electronic health records: protocol of FIND-AF for developing a precision medicine prediction model using artificial intelligence. BMJ Open, 2021, 11, e052887.	0.8	12
48	Medicine-Based Evidence in Congenital Heart Disease: How Artificial Intelligence Can Guide Treatment Decisions for Individual Patients. Frontiers in Cardiovascular Medicine, 2021, 8, 798215.	1.1	11
49	Radiomics-Based Assessment of Primary SjÃ¶gren's Syndrome From Salivary Gland Ultrasonography Images. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 835-843.	3.9	16
50	Populationâ€specific modelling of between/withinâ€subject flow variability in the carotid arteries of the elderly. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3271.	1.0	4
51	Diffusion MRI for Assessment of Bone Quality; A Review of Findings in Healthy Aging and Osteoporosis. Journal of Magnetic Resonance Imaging, 2020, 51, 975-992.	1.9	20
52	A Spatio-Temporal Ageing Atlas of the Proximal Femur. IEEE Transactions on Medical Imaging, 2020, 39, 1359-1368.	5.4	3
53	Tensor-cut: A tensor-based graph-cut blood vessel segmentation method and its application to renal artery segmentation. Medical Image Analysis, 2020, 60, 101623.	7.0	26
54	Development and clinical deployment of a smartphone-based visual field deep learning system for glaucoma detection. Npj Digital Medicine, 2020, 3, 123.	5.7	32

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55	Autonomous Tissue Retraction in Robotic Assisted Minimally Invasive Surgery â€“ A Feasibility Study. IEEE Robotics and Automation Letters, 2020, 5, 6528-6535.	3.3	41
56	The UK Biobank imaging enhancement of 100,000 participants:â€‰rationale, data collection, management and future directions. Nature Communications, 2020, 11, 2624.	5.8	324
57	Groupwise registration with global-local graph shrinkage in atlas construction. Medical Image Analysis, 2020, 64, 101711.	7.0	3
58	AIDAN: An Attention-Guided Dual-Path Network for Pediatric Echocardiography Segmentation. IEEE Access, 2020, 8, 29176-29187.	2.6	22
59	Self-calibrated brain network estimation and joint non-convex multi-task learning for identification of early Alzheimer's disease. Medical Image Analysis, 2020, 61, 101652.	7.0	47
60	Federated Simulation for Medical Imaging. Lecture Notes in Computer Science, 2020, , 159-168.	1.0	19
61	Searching Collaborative Agents for Multi-plane Localization in 3D Ultrasound. Lecture Notes in Computer Science, 2020, , 553-562.	1.0	2
62	Contrastive Rendering for Ultrasound Image Segmentation. Lecture Notes in Computer Science, 2020, , 563-572.	1.0	7
63	Self-weighted Multi-task Learning for Subjective Cognitive Decline Diagnosis. Lecture Notes in Computer Science, 2020, , 104-113.	1.0	1
64	Integrating Similarity Awareness and Adaptive Calibration in Graph Convolution Network to Predict Disease. Lecture Notes in Computer Science, 2020, , 124-133.	1.0	8
65	Virtual clinical trials in medical imaging: a review. Journal of Medical Imaging, 2020, 7, 1.	0.8	93
66	Aneurysm Identification in Cerebral Models with Multiview Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 23-31.	1.0	0
67	Quantitating Age-Related BMD Textural Variation from DXA Region-Free-Analysis: A Study of Hip Fracture Prediction in Three Cohorts. Journal of Bone and Mineral Research, 2020, 37, 1679-1688.	3.1	3
68	Automated retinal lesion detection via image saliency analysis. Medical Physics, 2019, 46, 4531-4544.	1.6	10
69	IJCARS-MICCAI 2018 special issue. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1461-1461.	1.7	0
70	Special issue on MICCAI 2018. Medical Image Analysis, 2019, 58, 101560.	7.0	1
71	Strategic research agenda for biomedical imaging. Insights Into Imaging, 2019, 10, 7.	1.6	6
72	Generalised coherent point drift for group-wise multi-dimensional analysis of diffusion brain MRI data. Medical Image Analysis, 2019, 53, 47-63.	7.0	9

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73	Iba-1-/CD68+ microglia are a prominent feature of age-associated deep subcortical white matter lesions. PLoS ONE, 2019, 14, e0210888.	1.1	61
74	Bayesian Polytrees With Learned Deep Features for Multi-Class Cell Segmentation. IEEE Transactions on Image Processing, 2019, 28, 3246-3260.	6.0	17
75	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. Medical Image Analysis, 2019, 56, 26-42.	7.0	41
76	Populationâ€based Bayesian regularization for microstructural diffusion MRI with NODDIDA. Magnetic Resonance in Medicine, 2019, 82, 1553-1565.	1.9	6
77	A computational model for prediction of clot platelet content in flow-diverted intracranial aneurysms. Journal of Biomechanics, 2019, 91, 7-13.	0.9	22
78	Fluidâ€“structure interaction for highly complex, statistically defined, biological media: Homogenisation and a 3D multi-compartmental poroelastic model for brain biomechanics. Journal of Fluids and Structures, 2019, 91, 102641.	1.5	24
79	Resolving degeneracy in diffusion MRI biophysical model parameter estimation using double diffusion encoding. Magnetic Resonance in Medicine, 2019, 82, 395-410.	1.9	52
80	Histological data of axons, astrocytes, and myelin in deep subcortical white matter populations. Data in Brief, 2019, 23, 103762.	0.5	1
81	Quantitative histomorphometry of capillary microstructure in deep white matter. NeuroImage: Clinical, 2019, 23, 101839.	1.4	8
82	Retinal Image Synthesis and Semi-Supervised Learning for Glaucoma Assessment. IEEE Transactions on Medical Imaging, 2019, 38, 2211-2218.	5.4	135
83	Phase-field modeling for polarization evolution in ferroelectric materials via an isogeometric collocation method. Computer Methods in Applied Mechanics and Engineering, 2019, 351, 789-807.	3.4	16
84	Deep motion tracking from multiview angiographic image sequences for synchronization of cardiac phases. Physics in Medicine and Biology, 2019, 64, 025018.	1.6	3
85	Automatic Assessment of Full Left Ventricular Coverage in Cardiac Cine Magnetic Resonance Imaging With Fisher-Discriminative 3-D CNN. IEEE Transactions on Biomedical Engineering, 2019, 66, 1975-1986.	2.5	19
86	Patch-Based Adaptive Background Subtraction for Vascular Enhancement in X-Ray Cineangiograms. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2563-2575.	3.9	9
87	Pelvis Segmentation Using Multi-pass U-Net and Iterative Shape Estimation. Lecture Notes in Computer Science, 2019, , 49-57.	1.0	7
88	High Throughput Computation of Reference Ranges of Biventricular Cardiac Function on the UK Biobank Population Cohort. Lecture Notes in Computer Science, 2019, , 114-121.	1.0	3
89	Image Quality Assessment for Population Cardiac Magnetic Resonance Imaging. Advances in Computer Vision and Pattern Recognition, 2019, , 299-321.	0.9	2
90	Tubular Structure Segmentation Using Spatial Fully Connected Network with Radial Distance Loss for 3D Medical Images. Lecture Notes in Computer Science, 2019, , 348-356.	1.0	23

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91	CS-Net: Channel and Spatial Attention Network for Curvilinear Structure Segmentation. Lecture Notes in Computer Science, 2019, , 721-730.	1.0	131
92	3D Cardiac Shape Prediction with Deep Neural Networks: Simultaneous Use of Images and Patient Metadata. Lecture Notes in Computer Science, 2019, , 586-594.	1.0	11
93	Optimal Experimental Design for Biophysical Modelling in Multidimensional Diffusion MRI. Lecture Notes in Computer Science, 2019, , 617-625.	1.0	8
94	Intracranial Aneurysm Detection from 3D Vascular Mesh Models with Ensemble Deep Learning. Lecture Notes in Computer Science, 2019, , 243-252.	1.0	9
95	Highly integrated workflows for exploring cardiovascular conditions: Exemplars of precision medicine in Alzheimer's disease and aortic dissection. Morphologie, 2019, 103, 148-160.	0.5	3
96	Beyond episodic memory: Semantic processing as independent predictor of hippocampal/perirhinal volume in aging and mild cognitive impairment due to Alzheimerâ€™s disease.. Neuropsychology, 2019, 33, 523-533.	1.0	18
97	Computer-aided detection of lung nodules: a review. Journal of Medical Imaging, 2019, 6, 1.	0.8	28
98	Missing Slice Imputation in Population CMR Imaging via Conditional Generative Adversarial Nets. Lecture Notes in Computer Science, 2019, , 651-659.	1.0	3
99	Simultaneous Super-Resolution and Cross-Modality Synthesis in Magnetic Resonance Imaging. Advances in Computer Vision and Pattern Recognition, 2019, , 437-457.	0.9	5
100	Unsupervised Standard Plane Synthesis in Population Cine MRI via Cycle-Consistent Adversarial Networks. Lecture Notes in Computer Science, 2019, , 660-668.	1.0	0
101	Simulation and Synthesis in Medical Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 673-679.	5.4	64
102	Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. IEEE Transactions on Biomedical Engineering, 2018, 65, 1654-1661.	2.5	13
103	Cross-Modality Image Synthesis via Weakly Coupled and Geometry Co-Regularized Joint Dictionary Learning. IEEE Transactions on Medical Imaging, 2018, 37, 815-827.	5.4	52
104	Three-dimensional reconstruction and NURBS-based structured meshing of coronary arteries from the conventional X-ray angiography projection images. Scientific Reports, 2018, 8, 1711.	1.6	29
105	Characterization of active and infiltrative tumorous subregions from normal tissue in brain gliomas using multiparametric MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 938-950.	1.9	38
106	Group-wise similarity registration of point sets using Studentâ€™s t-mixture model for statistical shape models. Medical Image Analysis, 2018, 44, 156-176.	7.0	32
107	Subject-specific multi-poroelastic model for exploring the risk factors associated with the early stages of Alzheimer's disease. Interface Focus, 2018, 8, 20170019.	1.5	49
108	A surface-based approach to determine key spatial parameters of the acetabulum in a standardized pelvic coordinate system. Medical Engineering and Physics, 2018, 52, 22-30.	0.8	5

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109	Mixture of Probabilistic Principal Component Analyzers for Shapes from Point Sets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 891-904.	9.7	6
110	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	3.9	61
111	Simultaneous magnetic resonance diffusion and pseudoâ€diffusion tensor imaging. Magnetic Resonance in Medicine, 2018, 79, 2367-2378.	1.9	12
112	Automatic initialization and quality control of large-scale cardiac MRI segmentations. Medical Image Analysis, 2018, 43, 129-141.	7.0	48
113	MULTI-X, a State-of-the-Art Cloud-Based Ecosystem for Biomedical Research. , 2018, , .		2
114	Retinal Image Synthesis for Glaucoma Assessment Using DCGAN and VAE Models. Lecture Notes in Computer Science, 2018, , 224-232.	1.0	7
115	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	5.8	198
116	Multi-Input and Dataset-Invariant Adversarial Learning (MDAL) for Left and Right-Ventricular Coverage Estimation in Cardiac MRI. Lecture Notes in Computer Science, 2018, , 481-489.	1.0	14
117	Spatio-Temporal Atlas of Bone Mineral Density Ageing. Lecture Notes in Computer Science, 2018, , 720-728.	1.0	1
118	Local volume fraction distributions of axons, astrocytes, and myelin in deep subcortical white matter. NeuroImage, 2018, 179, 275-287.	2.1	17
119	Classification of breast lesions in ultrasonography using sparse logistic regression and morphologyâ€based texture features. Medical Physics, 2018, 45, 4112-4124.	1.6	25
120	Thrombosis in Cerebral Aneurysms and the Computational Modeling Thereof: A Review. Frontiers in Physiology, 2018, 9, 306.	1.3	39
121	Medical Image Computing and Computer Assisted Intervention â€“ MICCAI 2018. Lecture Notes in Computer Science, 2018, , .	1.0	25
122	Multi-modal Synthesis of ASL-MRI Features with KPLS Regression on Heterogeneous Data. Lecture Notes in Computer Science, 2018, , 473-481.	1.0	0
123	Precision Imaging. Informatik Aktuell, 2018, , 4-4.	0.4	0
124	Fully automatic detection of lung nodules in CT images using a hybrid featureÂset. Medical Physics, 2017, 44, 3615-3629.	1.6	44
125	Virtual endovascular treatment of intracranial aneurysms: models and uncertainty. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1385.	6.6	11
126	Segmentation and Quantification for Angle-Closure Glaucoma Assessment in Anterior Segment OCT. IEEE Transactions on Medical Imaging, 2017, 36, 1930-1938.	5.4	77

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127	Quantitating the effect of prosthesis design on femoral remodeling using highâ€resolution regionâ€free densitometric analysis (<scp>DXAâ€RFA</scp>). Journal of Orthopaedic Research, 2017, 35, 2203-2210.	1.2	14
128	Quantification of ¹Hâ€“MRS signals based on sparse metabolite profiles in the timeâ€frequency domain. NMR in Biomedicine, 2017, 30, e3675.	1.6	2
129	DOTE: Dual cOnvolutional filTer lEarning for Super-Resolution and Cross-Modality Synthesis in MRI. Lecture Notes in Computer Science, 2017, , 89-98.	1.0	9
130	Generalised Coherent Point Drift for Group-Wise Registration of Multi-dimensional Point Sets. Lecture Notes in Computer Science, 2017, , 309-316.	1.0	21
131	CoronARe: A Coronary Artery Reconstruction Challenge. Lecture Notes in Computer Science, 2017, , 96-104.	1.0	1
132	Information Theoretic Measurement of Blood Flow Complexity in Vessels and Aneurysms: Interlacing Complexity Index. Lecture Notes in Computer Science, 2017, , 233-241.	1.0	0
133	Machine-learning Support to Individual Diagnosis of Mild Cognitive Impairment Using Multimodal MRI and Cognitive Assessments. Alzheimer Disease and Associated Disorders, 2017, 31, 278-286.	0.6	22
134	PATCH-IQ: A patch based learning framework for blind image quality assessment. Information Sciences, 2017, 420, 329-344.	4.0	10
135	Support for Taverna workflows in the VPH-Share cloud platform. Computer Methods and Programs in Biomedicine, 2017, 146, 37-46.	2.6	5
136	Flow complexity in open systems: interlacing complexity index based on mutual information. Journal of Fluid Mechanics, 2017, 825, 704-742.	1.4	8
137	Quantifying Pelvic Periprosthetic Bone Remodeling Using Dual-Energy X-Ray Absorptiometry Region-Free Analysis. Journal of Clinical Densitometry, 2017, 20, 480-485.	0.5	8
138	Improved hybrid/GPU algorithm for solving cardiac electrophysiology problems on Purkinje networks. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2835.	1.0	3
139	An atlasâ€and dataâ€driven approach to initializing reactionâ€diffusion systems in computer cardiac electrophysiology. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2846.	1.0	3
140	Multiresolution eXtended Free-Form Deformations (XFFD) for non-rigid registration with discontinuous transforms. Medical Image Analysis, 2017, 36, 113-122.	7.0	24
141	Wall shear stress at the initiation site of cerebral aneurysms. Biomechanics and Modeling in Mechanobiology, 2017, 16, 97-115.	1.4	40
142	Evaluation of wave delivery methodology for brain MRE: Insights from computational simulations. Magnetic Resonance in Medicine, 2017, 78, 341-356.	1.9	9
143	Simultaneous Super-Resolution and Cross-Modality Synthesis of 3D Medical Images Using Weakly-Supervised Joint Convolutional Sparse Coding. , 2017, , .		126
144	Message from General and Program Chairs. , 2017, , .		0

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145	Multi-class Image Segmentation in Fluorescence Microscopy Using Polytrees. Lecture Notes in Computer Science, 2017, , 517-528.	1.0	3
146	Semi-supervised Assessment of Incomplete LV Coverage in Cardiac MRI Using Generative Adversarial Nets. Lecture Notes in Computer Science, 2017, , 61-68.	1.0	24
147	Tracking and diameter estimation of retinal vessels using Gaussian process and Radon transform. Journal of Medical Imaging, 2017, 4, 1.	0.8	14
148	Robustness of common hemodynamic indicators with respect to numerical resolution in 38 middle cerebral artery aneurysms. PLoS ONE, 2017, 12, e0177566.	1.1	11
149	ApoE Îµ4 Allele Related Alterations in Hippocampal Connectivity in Early Alzheimerâ€™s Disease Support Memory Performance. Current Alzheimer Research, 2017, 14, 766-777.	0.7	10
150	Region-Enhanced Joint Dictionary Learning for Cross-Modality Synthesis in Diffusion Tensor Imaging. Lecture Notes in Computer Science, 2017, , 41-48.	1.0	0
151	Magnetic resonance elastography of the brain: An in silico study to determine the influence of cranial anatomy. Magnetic Resonance in Medicine, 2016, 76, 645-662.	1.9	19
152	Utility of Real Time 3D Echocardiography for the Assessment of Left Ventricular Mass in Patients with Hypertrophic Cardiomyopathy: Comparison with Cardiac Magnetic Resonance. Echocardiography, 2016, 33, 431-436.	0.3	16
153	Estimation of trabecular bone parameters in children from multisequence MRI using textureâ€based regression. Medical Physics, 2016, 43, 3071-3079.	1.6	2
154	Automatic construction of patient-specific finite-element mesh of the spine from IVDs and vertebra segmentations. , 2016, , .		3
155	An Efficient Finite Element Solution of the Generalised Bloch-Torrey Equation for Arbitrary Domains. Mathematics and Visualization, 2016, , 3-14.	0.4	2
156	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	3.5	104
157	A review of heart chamber segmentation for structural and functional analysis using cardiac magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 155-195.	1.1	190
158	Reconstruction of coronary artery centrelines from x-ray rotational angiography using a probabilistic mixture model. , 2016, , .		0
159	Editorial for the Special Issue on MICCAI 2015. Medical Image Analysis, 2016, 34, 1-2.	7.0	0
160	Intervertebral disc classification by its degree of degeneration from T2-weighted magnetic resonance images. European Spine Journal, 2016, 25, 2721-2727.	1.0	38
161	Robust group-wise rigid registration of point sets using t-mixture model. , 2016, , .		3
162	Reconstruction of Coronary Artery Centrelines from X-Ray Angiography Using a Mixture of Studentâ€™s t-Distributions. Lecture Notes in Computer Science, 2016, , 291-299.	1.0	3

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163	Geometry Regularized Joint Dictionary Learning for Cross-Modality Image Synthesis in Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2016, , 118-126.	1.0	11
164	Automated Quality Assessment of Cardiac MR Images Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 138-145.	1.0	30
165	Uncertainty quantification of wall shear stress in intracranial aneurysms using a data-driven statistical model of systemic blood flow variability. Journal of Biomechanics, 2016, 49, 3815-3823.	0.9	22
166	Application of optimally-shaped phononic crystals to reduce anchor losses of MEMS resonators. , 2016, , .		15
167	Automatic Quality Control for Population Imaging: A Generic Unsupervised Approach. Lecture Notes in Computer Science, 2016, , 291-299.	1.0	3
168	Direct Estimation of Wall Shear Stress from Aneurysmal Morphology: A Statistical Approach. Lecture Notes in Computer Science, 2016, , 201-209.	1.0	1
169	Color object recognition via cross-domain learning on RGB-D images. , 2016, , .		4
170	Precision Imaging: more descriptive, predictive and integrative imaging. Medical Image Analysis, 2016, 33, 27-32.	7.0	12
171	Semi-analytical and numerical estimates of anchor losses in bistable MEMS. International Journal of Solids and Structures, 2016, 92-93, 141-148.	1.3	6
172	Joint Clustering and Component Analysis of Spatio-Temporal Shape Patterns in Myocardial Infarction. Lecture Notes in Computer Science, 2016, , 171-179.	1.0	2
173	Patient-Specific Biomechanical Modeling of Bone Strength Using Statistically-Derived Fabric Tensors. Annals of Biomedical Engineering, 2016, 44, 234-246.	1.3	15
174	Reconstruction of coronary arteries from X-ray angiography: A review. Medical Image Analysis, 2016, 32, 46-68.	7.0	72
175	Evaluation of state-of-the-art segmentation algorithms for left ventricle infarct from late Gadolinium enhancement MR images. Medical Image Analysis, 2016, 30, 95-107.	7.0	90
176	A coupled 3Dâ€“1D numerical monodomain solver for cardiac electrical activation in the myocardium with detailed Purkinje network. Journal of Computational Physics, 2016, 308, 218-238.	1.9	29
177	Nonparametric Quality Assessment of Natural Images. IEEE MultiMedia, 2016, 23, 22-30.	1.5	4
178	Statistical Shape Modeling Using Partial Least Squares: Application to the Assessment of Myocardial Infarction. Lecture Notes in Computer Science, 2016, , 130-139.	1.0	10
179	An Algorithm for the Segmentation of Highly Abnormal Hearts Using a Generic Statistical Shape Model. IEEE Transactions on Medical Imaging, 2016, 35, 845-859.	5.4	31
180	Left-ventricular epi- and endocardium extraction from 3D ultrasound images using an automatically constructed 3D ASM. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 265-280.	1.3	5

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181	Integration of Multi-Plane Tissue Doppler and B-Mode Echocardiographic Images for Left Ventricular Motion Estimation. IEEE Transactions on Medical Imaging, 2016, 35, 89-97.	5.4	3
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