

CITATION REPORT

List of articles citing

Automated cardiovascular magnetic resonance image analysis with fully convolutional networks

DOI: 10.1186/s12968-018-0471-x

Journal of Cardiovascular Magnetic Resonance, 2018, 20, 65.

Source: <https://exaly.com/paper-pdf/70872185/citation-report.pdf>

Version: 2024-04-23

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
387	Joint Motion Estimation and Segmentation from Undersampled Cardiac MR Image. 2018 , 55-63		10
386	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences. 2018 , 472-480		44
385	Machine learning in the electrocardiogram. 2019 , 57S, S61-S64		28
384	Artificial intelligence in cardiovascular imaging: state of the art and implications for the imaging cardiologist. 2019 , 27, 403-413		40
383	Advancing Artificial Intelligence in Sensors, Signals, and Imaging Informatics. 2019 , 28, 115-117		2
382	A Deep Learning Segmentation Approach in Free-Breathing Real-Time Cardiac Magnetic Resonance Imaging. 2019 , 2019, 5636423		13
381	Disentangled representation learning in cardiac image analysis. <i>Medical Image Analysis</i> , 2019 , 58, 101535-154	5.4	59
380	Denosing and artefact removal for transthoracic echocardiographic imaging in congenital heart disease: utility of diagnosis specific deep learning algorithms. 2019 , 35, 2189-2196		11
379	Right ventricular shape and function: cardiovascular magnetic resonance reference morphology and biventricular risk factor morphometrics in UK Biobank. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 41	6.9	21
378	New alcohol-related genes suggest shared genetic mechanisms with neuropsychiatric disorders. 2019 , 3, 950-961		32
377	Pharmacokinetics and biodistribution study of self-assembled Gd-micelles demonstrating blood-pool contrast enhancement for MRI. 2019 , 568, 118496		3
376	Edge-Guided Output Adaptor: Highly Efficient Adaptation Module for Cross-Vendor Medical Image Segmentation. 2019 , 26, 1593-1597		10
375	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 61	6.9	74
374	[Artificial intelligence and fetal imaging: What are we talking about?]. 2019 , 47, 765-768		1
373	Deep learning application engine (DLAE): Development and integration of deep learning algorithms in medical imaging. 2019 , 10, 100347-100347		4
372	An iterative multi-path fully convolutional neural network for automatic cardiac segmentation in cine MR images. 2019 , 46, 5652-5665		3
371	Utility of machine learning algorithms in assessing patients with a systemic right ventricle. 2019 , 20, 925-931		25

370	Cardiac magnetic resonance imaging: the future is bright. 2019 , 8,		13
369	Machine learning applications in prostate cancer magnetic resonance imaging. 2019 , 3, 35		59
368	Advances in population-based imaging using cardiac magnetic resonance. 2019 , 1, 012003		
367	Carotid artery segmentation using level set method with double adaptive threshold (DATLS) on TOF-MRA images. 2019 , 63, 123-130		8
366	Automated analysis of cardiovascular magnetic resonance myocardial native T mapping images using fully convolutional neural networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 7	6.9	47
365	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi- Task Deep Learning Approach. 2019 , 38, 2151-2164		85
364	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. <i>Medical Image Analysis</i> , 2019 , 56, 26-42	15.4	28
363	Paraspinal Muscle Segmentation Based on Deep Neural Network. 2019 , 19,		11
362	Applications of deep learning for the analysis of medical data. 2019 , 42, 492-504		29
361	A primer in artificial intelligence in cardiovascular medicine. 2019 , 27, 392-402		28
360	Computational anatomy for multi-organ analysis in medical imaging: A review. <i>Medical Image Analysis</i> , 2019 , 56, 44-67	15.4	22
359	RIANet: Recurrent interleaved attention network for cardiac MRI segmentation. 2019 , 109, 290-302		21
358	Quantification of Full Left Ventricular Metrics via Deep Regression Learning With Contour-Guidance. 2019 , 7, 47918-47928		48
357	Left-Ventricle Quantification Using Residual U-Net. 2019 , 371-380		27
356	Deep learning for cardiovascular medicine: a practical primer. 2019 , 40, 2058-2073		104
355	Fully automated segmentation of the left atrium, pulmonary veins, and left atrial appendage from magnetic resonance angiography by joint-atlas-optimization. 2019 , 46, 2074-2084		2
354	Deep learning cardiac motion analysis for human survival prediction. 2019 , 1, 95-104		109
353	Deep learning enables automated volumetric assessments of cardiac function in zebrafish. 2019 , 12,		16

352	Spinal Stenosis Detection in MRI using Modular Coordinate Convolutional Attention Networks. 2019 ,		0
351	Journal of Cardiovascular Magnetic Resonance: 2017/2018 in review. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 79	6.9	3
350	Cascaded Conditional Generative Adversarial Networks With Multi-Scale Attention Fusion for Automated Bi-Ventricle Segmentation in Cardiac MRI. 2019 , 7, 172305-172320		4
349	Artificial intelligence for the electrocardiogram. 2019 , 25, 22-23		47
348	Fully convolutional multi-scale residual DenseNets for cardiac segmentation and automated cardiac diagnosis using ensemble of classifiers. <i>Medical Image Analysis</i> , 2019 , 51, 21-45	15.4	142
347	Learning-Based Quality Control for Cardiac MR Images. 2019 , 38, 1127-1138		31
346	Quantitative cardiac MRI. 2020 , 51, 693-711		12
345	Lumbar Spine MRI: Missed Opportunities for Abdominal Aortic Aneurysm Detection. 2020 , 49, 254-259		3
344	Putting machine learning into motion: applications in cardiovascular imaging. 2020 , 75, 33-37		12
343	Left Ventricular Hypertrophy: Evaluation With Cardiac MRI. 2020 , 49, 460-475		4
342	Fully Automated, Quality-Controlled Cardiac Analysis From CMR: Validation and Large-Scale Application to Characterize Cardiac Function. 2020 , 13, 684-695		61
341	Model-Based and Data-Driven Strategies in Medical Image Computing. 2020 , 108, 110-124		16
340	Deep-Learning-Based Preprocessing for Quantitative Myocardial Perfusion MRI. 2020 , 51, 1689-1696		30
339	Deep Learning for Quantitative Cardiac MRI. 2020 , 214, 529-535		10
338	Commensal correlation network between segmentation and direct area estimation for bi-ventricle quantification. <i>Medical Image Analysis</i> , 2020 , 59, 101591	15.4	12
337	Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. <i>Medical Image Analysis</i> , 2020 , 61, 101636	15.4	29
336	How personalized heart modeling can help treatment of lethal arrhythmias: A focus on ventricular tachycardia ablation strategies in post-infarction patients. 2020 , 12, e1477		8
335	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. 2020 , 39, 2088-2099		12

334	Image processing techniques represent innovative tools for comparative analysis of proteins. 2020 , 117, 103584		2
333	Accuracy, uncertainty, and adaptability of automatic myocardial ASL segmentation using deep CNN. 2020 , 83, 1863-1874		4
332	Hybrid method for automatic construction of 3D-ASM image intensity models for left ventricle. 2020 , 396, 65-75		1
331	Will artificial intelligence change the job of the cardiac imaging specialist?. 2020 , 113, 1-4		1
330	Myocardial Radiomics in Cardiac MRI. 2020 , 214, 536-545		13
329	Machine learning based quantification of ejection and filling parameters by fully automated dynamic measurement of left ventricular volumes from cardiac magnetic resonance images. 2020 , 67, 28-32		6
328	Hierarchical Bayesian myocardial perfusion quantification. <i>Medical Image Analysis</i> , 2020 , 60, 101611	15.4	9
327	Accuracy and Time-Efficiency of an Automated Software Tool to Assess Left Ventricular Parameters in Cardiac Magnetic Resonance Imaging. 2020 , 35, 64-70		5
326	Applications of Artificial Intelligence and Big Data Analytics in m-Health: A Healthcare System Perspective. 2020 , 2020, 8894694		36
325	Identification of White Matter Lesions in Patients With Acute Ischemic Lesions Using U-net. 2020 , 11, 1008		0
324	Utility of deep learning networks for the generation of artificial cardiac magnetic resonance images in congenital heart disease. 2020 , 20, 113		13
323	Multislice left ventricular ejection fraction prediction from cardiac MRIs without segmentation using shared SptDenNet. 2020 , 86, 101795		3
322	Deep Learning-Based Detection and Correction of Cardiac MR Motion Artefacts During Reconstruction for High-Quality Segmentation. 2020 , 39, 4001-4010		16
321	Fully automated quantification of left ventricular volumes and function in cardiac MRI: clinical evaluation of a deep learning-based algorithm. 2020 , 36, 2239-2247		7
320	Cardiac Magnetic Resonance in Pulmonary Hypertension-an Update. 2020 , 13, 30		3
319	Feasibility of the deep learning method for estimating the ventilatory threshold with electrocardiography data. 2020 , 3, 141		6
318	Fully-automated deep-learning segmentation of pediatric cardiovascular magnetic resonance of patients with complex congenital heart diseases. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 80	6.9	10
317	Cardiac magnetic resonance imaging and computed tomography for the pediatric cardiologist. 2020 , 58, 101273		

316	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist: Reviewed by the American College of Cardiology Healthcare Innovation Council. 2020 , 13, 2017-2035		34
315	Improving the generalization of deep learning methods to segment the left ventricle in short axis MR images. 2020 , 2020, 1203-1206		1
314	Fully Automated Quantification of Cardiac Indices from Cine MRI Using a Combination of Convolution Neural Networks. 2020 , 2020, 1221-1224		1
313	L-CO-Net: Learned Condensation-Optimization Network for Segmentation and Clinical Parameter Estimation from Cardiac Cine MRI. 2020 , 2020, 1217-1220		0
312	A population-based phenome-wide association study of cardiac and aortic structure and function. 2020 , 26, 1654-1662		23
311	Automated quantification of myocardial tissue characteristics from native T mapping using neural networks with uncertainty-based quality-control. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 60	6.9	8
310	Artificial intelligence in cardiac radiology. 2020 , 125, 1186-1199		28
309	Fully Automated Cardiac Assessment for Diagnostic and Prognostic Stratification Following Myocardial Infarction. 2020 , 9, e016612		11
308	Genetic and functional insights into the fractal structure of the heart. 2020 , 584, 589-594		26
307	Reference ranges ("normal values") for cardiovascular magnetic resonance (CMR) in adults and children: 2020 update. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 87	6.9	53
306	Automatic segmentation with detection of local segmentation failures in cardiac MRI. 2020 , 10, 21769		6
305	Kidney segmentation in neck-to-knee body MRI of 40,000 UK Biobank participants. 2020 , 10, 20963		5
304	MRI Manufacturer Shift and Adaptation: Increasing the Generalizability of Deep Learning Segmentation for MR Images Acquired with Different Scanners. 2020 , 2, e190195		12
303	Automated Inline Analysis of Myocardial Perfusion MRI with Deep Learning. 2020 , 2, e200009		11
302	Automated Myocardial T2 and Extracellular Volume Quantification in Cardiac MRI Using Transfer Learning-based Myocardium Segmentation. 2020 , 2, e190034		10
301	Deep learning with attention supervision for automated motion artefact detection in quality control of cardiac T1-mapping. 2020 , 110, 101955		10
300	Automated detection of left ventricle in arterial input function images for inline perfusion mapping using deep learning: A study of 15,000 patients. 2020 , 84, 2788-2800		11
299	Cardiac MRI-Update 2020. 2020 , 60, 33-40		6

298	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. 2020 , 11, 2624		81
297	Left ventricular geometry during unloading and the end-systolic pressure volume relationship: Measurement with a modified real-time MRI-based method in normal sheep. 2020 , 15, e0234896		1
296	Automatic estimation of aortic and mitral valve displacements in dynamic CTA with 4D graph-cuts. <i>Medical Image Analysis</i> , 2020 , 65, 101748	15.4	2
295	A New Framework for Performing Cardiac Strain Analysis from Cine MRI Imaging in Mice. 2020 , 10, 7725		10
294	Artificial intelligence: improving the efficiency of cardiovascular imaging. 2020 , 17, 565-577		8
293	Mini Review: Deep Learning for Atrial Segmentation From Late Gadolinium-Enhanced MRIs. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 86	5.4	7
292	Deep Learning for Cardiac Image Segmentation: A Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 25	5.4	203
291	Applications of artificial intelligence in multimodality cardiovascular imaging: A state-of-the-art review. 2020 , 63, 367-376		20
290	Artificial Intelligence in Cardiac Imaging With Statistical Atlases of Cardiac Anatomy. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 102	5.4	8
289	A Multi-Scaled Receptive Field Learning Approach for Medical Image Segmentation. 2020 ,		2
288	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 105	5.4	40
287	Advances in Imaging of Adult Congenital Heart Disease. 2020 , 2, 37-63		0
286	Artificial Intelligence for Cardiac Imaging-Genetics Research. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 195	5.4	9
285	Artificial Intelligence Pipeline for Risk Prediction in Cardiovascular Imaging. 2020 , 13, e010427		1
284	Fully Automated Myocardial Strain Estimation from Cardiovascular MRI-tagged Images Using a Deep Learning Framework in the UK Biobank. 2020 , 2, e190032		15
283	AIDAN: An Attention-Guided Dual-Path Network for Pediatric Echocardiography Segmentation. 2020 , 8, 29176-29187		9
282	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. 2020 , 10, 2408		13
281	Clinical Inference From Cardiovascular Imaging: Paradigm Shift Towards Machine-Based Intelligent Platform. 2020 , 22, 1		8

280	A deep learning-based approach for automatic segmentation and quantification of the left ventricle from cardiac cine MR images. 2020 , 81, 101717	20
279	Prediction of prognosis in patients with tetralogy of Fallot based on deep learning imaging analysis. 2020 , 106, 1007-1014	22
278	Cardiovascular magnetic resonance imaging in the UK Biobank: a major international health research resource. 2021 , 22, 251-258	9
277	Top Cats Often Begin as Underdogs: The Ascent of Trabecular Fractal Analysis with Cardiac MRI. <i>Radiology</i> , 2021 , 298, 80-81	20.5
276	Cine and late gadolinium enhancement MRI registration and automated myocardial infarct heterogeneity quantification. 2021 , 85, 2842-2855	3
275	Artificial intelligence in cardiovascular imaging. 2021 , 383-393	
274	Deep learning algorithm to improve hypertrophic cardiomyopathy mutation prediction using cardiac cine images. 2021 , 31, 3931-3940	7
273	Automated analysis and detection of abnormalities in transaxial anatomical cardiovascular magnetic resonance images: a proof of concept study with potential to optimize image acquisition. 2021 , 37, 1033-1042	4
272	Computational analysis of cardiac structure and function in congenital heart disease: Translating discoveries to clinical strategies. 2021 , 52,	1
271	Modelling Cardiac Motion via Spatio-Temporal Graph Convolutional Networks to Boost the Diagnosis of Heart Conditions. 2021 , 56-65	3
270	Efficient Model Monitoring for Quality Control in Cardiac Image Segmentation. 2021 , 101-111	2
269	Cardiac MRI Left Ventricular Segmentation and Function Quantification Using Pre-trained Neural Networks. 2021 , 46-54	0
268	Learning a Model-Driven Variational Network for Deformable Image Registration. 2021 , PP,	3
267	Three-Dimensional Embedded Attentive RNN (3D-EAR) Segmentor for Left Ventricle Delineation from Myocardial Velocity Mapping. 2021 , 55-62	1
266	Quality-aware semi-supervised learning for CMR segmentation. 2020 , 2020, 97-107	4
265	A 2-Step Deep Learning Method with Domain Adaptation for Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Magnetic Resonance Segmentation. 2021 , 196-207	2
264	Artificial Intelligence for Medical Imaging and Hygiene. 2021 , 133-147	
263	DeepMCAT: Large-Scale Deep Clustering for Medical Image Categorization. 2021 , 259-267	0

262	Retraining Convolutional Neural Networks for Specialized Cardiovascular Imaging Tasks: Lessons from Tetralogy of Fallot. 2021 , 42, 578-589	3
261	Non-invasive Diagnosis of Deep Vein Thrombosis from Ultrasound with Machine Learning.	1
260	A Deep Discontinuity-Preserving Image Registration Network. 2021 , 46-55	1
259	Alcohol consumption is associated with structural changes in various organ systems: A population-based study in UK Biobank.	1
258	Aortic and mitral flow quantification using dynamic valve tracking and machine learning: Prospective study assessing static and dynamic plane repeatability, variability and agreement. 2021 , 10, 2048004021999900	5
257	Deep Learning-based Automated Segmentation of Left Ventricular Trabeculations and Myocardium on Cardiac MR Images: A Feasibility Study. 2021 , 3, e200021	1
256	Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation. 2021 , 14-24	2
255	Efficient Image Registration Network for Non-Rigid Cardiac Motion Estimation. 2021 , 14-24	2
254	Automatic Semantic Segmentation of Structural Elements related to the Spinal Cord in the Lumbar Region by using Convolutional Neural Networks. 2021 ,	
253	Multi-Indices Quantification for Left Ventricle via DenseNet and GRU-Based Encoder-Decoder with Attention. 2021 , 2021, 1-9	0
252	Apparent growth tensor of left ventricular post myocardial infarction - In human first natural history study. 2021 , 129, 104168	2
251	Sensitivity analysis for interpretation of machine learning based segmentation models in cardiac MRI. 2021 , 21, 27	7
250	Prospect of artificial intelligence for the assessment of cardiac function and treatment of cardiovascular disease. 2021 , 17, 183-187	
249	CMR for myocardial characterization in ischemic heart disease: state-of-the-art and future developments. 2021 , 5, 14	7
248	MDFA-Net: Multiscale dual-path feature aggregation network for cardiac segmentation on multi-sequence cardiac MR. 2021 , 215, 106776	6
247	Applications of artificial intelligence in cardiovascular imaging. 2021 , 18, 600-609	23
246	Technical Note: Fully automatic segmental relaxometry (FASTR) for cardiac magnetic resonance T1 mapping. 2021 , 48, 1815-1822	1
245	Fully-automated global and segmental strain analysis of DENSE cardiovascular magnetic resonance using deep learning for segmentation and phase unwrapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 20	6.9 6

244	Potential Role of Artificial Intelligence in Cardiac Magnetic Resonance Imaging: Can It Help Clinicians in Making a Diagnosis?. 2021 , 36, 142-148		3
243	SAUN: Stack attention U-Net for left ventricle segmentation from cardiac cine magnetic resonance imaging. 2021 , 48, 1750-1763		5
242	Automated cardiac volume assessment and cardiac long- and short-axis imaging plane prediction from electrocardiogram-gated computed tomography volumes enabled by deep learning. 2021 , 2, 311-322		2
241	3D shallow deep neural network for fast and precise segmentation of left atrium. 1		6
240	A deep learning pipeline for automatic analysis of multi-scan cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 47	6.9	4
239	Radiomic Machine Learning Classifiers in Spine Bone Tumors: A Multi-Software, Multi-Scanner Study. 2021 , 137, 109586		14
238	Artificial intelligence for a personalized diagnosis and treatment of atrial fibrillation. 2021 , 320, H1337-H1347		2
237	. 2021 ,		6
236	Dynamic Spatio-Temporal Graph Convolutional Networks For Cardiac Motion Analysis. 2021 ,		2
235	Validation of a deep-learning semantic segmentation approach to fully automate MRI-based left-ventricular deformation analysis in cardiotoxicity. 2021 , 94, 20201101		0
234	BloodCaps: A capsule network based model for the multiclassification of human peripheral blood cells. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 202, 105972	6.9	8
233	Deep learning based fully automatic segmentation of the left ventricular endocardium and epicardium from cardiac cine MRI. 2021 , 11, 1600-1612		5
232	Genetic determinants of interventricular septal anatomy and the risk of ventricular septal defects and hypertrophic cardiomyopathy.		
231	Automatic segmentation of the left ventricle in echocardiographic images using convolutional neural networks. 2021 , 11, 1763-1781		6
230	A systematic evaluation of learning rate policies in training CNNs for brain tumor segmentation. 2021 , 66,		2
229	A Comparative Evaluation of Computed Tomography Images for the Classification of Spirometric Severity of the Chronic Obstructive Pulmonary Disease with Deep Learning. 2021 , 11,		2
228	Deep learning-based cardiac cine segmentation: Transfer learning application to 7T ultrahigh-field MRI. 2021 , 86, 2179-2191		2
227	Clinical applications of artificial intelligence in cardiology on the verge of the decade. 2021 , 28, 460-472		1

226	A deep-learning semantic segmentation approach to fully automated MRI-based left-ventricular deformation analysis in cardiotoxicity. 2021 , 78, 127-139		3
225	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. 2021 , 109, 820-838		83
224	Multimodality imaging of myocardial viability: an expert consensus document from the European Association of Cardiovascular Imaging (EACVI). 2021 , 22, e97-e125		8
223	Genetic and environmental determinants of diastolic heart function.		1
222	Automated left and right ventricular chamber segmentation in cardiac magnetic resonance images using dense fully convolutional neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 204, 106059	6.9	10
221	Alcohol consumption in the general population is associated with structural changes in multiple organ systems. 2021 , 10,		3
220	Clinical prediction models of fractional flow reserve: an exploration of the current evidence and appraisal of model performance. 2021 , 11, 2642-2657		1
219	Automated left atrial time-resolved segmentation in MRI long-axis cine images using active contours. 2021 , 21, 101		5
218	Effect of age and sex on fully automated deep learning assessment of left ventricular function, volumes, and contours in cardiac magnetic resonance imaging. 2021 , 37, 3539-3547		0
217	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-based Segmentation.		2
216	Spatio-Temporal Multi-Task Learning for Cardiac MRI Left Ventricle Quantification. 2021 , 25, 2698-2709		0
215	Automated Quality-Controlled Cardiovascular Magnetic Resonance Pericardial Fat Quantification Using a Convolutional Neural Network in the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 677574	5.4	4
214	Prevalence of Hypertrophic Cardiomyopathy in the UK Biobank Population. 2021 , 6, 852-854		0
213	MCDALNet: Multi-scale Contextual Dual Attention Learning Network for Medical Image Segmentation. 2021 ,		
212	Deep neural network ensemble for on-the-fly quality control-driven segmentation of cardiac MRI T1 mapping. <i>Medical Image Analysis</i> , 2021 , 71, 102029	15.4	12
211	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. <i>Medical Image Analysis</i> , 2021 , 71, 102037	15.4	8
210	Genome-wide association study identifies 18 novel loci associated with left atrial volume and function. 2021 , 42, 4523-4534		4
209	Recent Advances in Fibrosis and Scar Segmentation From Cardiac MRI: A State-of-the-Art Review and Future Perspectives. <i>Frontiers in Physiology</i> , 2021 , 12, 709230	4.6	5

208	Deep Learning Applications in Medical Image Analysis. 2021 , 293-350		1
207	Automatic segmentation of left and right ventricles in cardiac MRI using 3D-ASM and deep learning. 2021 , 96, 116303		1
206	Balancing Speed and Accuracy in Cardiac Magnetic Resonance Function Post-Processing: Comparing 2 Levels of Automation in 3 Vendors to Manual Assessment. 2021 , 11,		1
205	Automated segmentation of biventricular contours in tissue phase mapping using deep learning. 2021 , 34, e4606		
204	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. 2021 , 78, 1097-1110		3
203	Non-invasive diagnosis of deep vein thrombosis from ultrasound imaging with machine learning. 2021 , 4, 137		5
202	Cardiovascular MRI image analysis by using the bio inspired (sand piper optimized) fully deep convolutional network (Bio-FDCN) architecture for an automated detection of cardiac disorders. 2021 , 70, 103002		2
201	Risk Prediction of Cardiovascular Events by Exploration of Molecular Data with Explainable Artificial Intelligence. 2021 , 22,		4
200	Landmark Detection in Cardiac MRI by Using a Convolutional Neural Network. 2021 , 3, e200197		4
199	Free-breathing Accelerated Cardiac MRI Using Deep Learning: Validation in Children and Young Adults. <i>Radiology</i> , 2021 , 300, 539-548	20.5	3
198	Application of Artificial Intelligence in Cardiovascular Medicine. 2021 , 11, 2455-2466		0
197	Neural network-based left ventricle geometry prediction from CMR images with application in biomechanics. 2021 , 119, 102140		2
196	Left Ventricle Quantification Challenge: A Comprehensive Comparison and Evaluation of Segmentation and Regression for Mid-Ventricular Short-Axis Cardiac MR Data. 2021 , 25, 3541-3553		1
195	An Implementation of Patient-Specific Biventricular Mechanics Simulations With a Deep Learning and Computational Pipeline. <i>Frontiers in Physiology</i> , 2021 , 12, 716597	4.6	1
194	New Imaging Signatures of Cardiac Alterations in Ischaemic Heart Disease and Cerebrovascular Disease Using CMR Radiomics. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 716577	5.4	2
193	Uncertainty-aware body composition analysis with deep regression ensembles on UK Biobank MRI. 2021 , 93, 101994		0
192	Artificial Intelligence Based Multimodality Imaging: A New Frontier in Coronary Artery Disease Management. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 736223	5.4	3
191	Diagnostic test accuracy of artificial intelligence analysis of cross-sectional imaging in pulmonary hypertension: a systematic literature review. 2021 , 94, 20210332		0

190	Shape registration with learned deformations for 3D shape reconstruction from sparse and incomplete point clouds. <i>Medical Image Analysis</i> , 2021 , 74, 102228	15.4	2
189	Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. 2021 , 40, 3543-3554		64
188	Relevance of Machine Learning to Cardiovascular Imaging. 2021 , 78-99		
187	Deep Learning-Based Automated Abdominal Organ Segmentation in the UK Biobank and German National Cohort Magnetic Resonance Imaging Studies. 2021 , 56, 401-408		4
186	Magnetic resonance imaging and artificial intelligence. 2021 , 241-253		
185	Outcomes and phenotypic expression of rare variants in hypertrophic cardiomyopathy genes amongst UK Biobank participants.		1
184	Learning Shape Priors for Robust Cardiac MR Segmentation from Multi-view Images. 2019 , 523-531		12
183	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. 2019 , 541-549		31
182	Global and Local Interpretability for Cardiac MRI Classification. 2019 , 656-664		12
181	Medical Image Segmentation Using Deep Learning. 2020 , 17-31		8
180	Left Ventricle Quantification with Cardiac MRI: Deep Learning Meets Statistical Models of Deformation. 2020 , 384-394		4
179	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. 2020 , 294-306		3
178	Probabilistic 3D Surface Reconstruction from Sparse MRI Information. 2020 , 813-823		3
177	Biomechanics-Informed Neural Networks for Myocardial Motion Tracking in MRI. 2020 , 296-306		4
176	INSIDE: Steering Spatial Attention with Non-imaging Information in CNNs. 2020 , 385-395		4
175	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. 2020 , 88-97		5
174	Exploring Ensemble Applications for Multi-sequence Myocardial Pathology Segmentation. 2020 , 60-67		2
173	A Deep Learning Based Cardiac Cine Segmentation Framework for Clinicians \square Transfer Learning Application to 7T.		2

172	Computational estimates of mitral annular diameter in systole and diastole cardiac cycle reveal novel genetic determinants of valve function and disease.	1
171	Genomic analysis reveals a functional role for myocardial trabeculae in adults.	1
170	Fully Automated and Standardized Segmentation of Adipose Tissue Compartments via Deep Learning in 3D Whole-Body MRI of Epidemiologic Cohort Studies. 2020 , 2, e200010	11
169	Comparison of the within-reader and inter-vendor agreement of left ventricular circumferential strains and volume indices derived from cardiovascular magnetic resonance imaging. 2020 , 15, e0242908	2
168	Left Ventricular Noncompaction Detected by Cardiac Magnetic Resonance Screening: A Reexamination of Diagnostic Criteria. 2020 , 47, 183-193	2
167	Application of mobile health, telemedicine and artificial intelligence to echocardiography. 2019 , 6, R41-R52	37
166	Artificial Intelligence in Cardiac Imaging. 2020 , 13, 110-116	9
165	MVSGAN: Spatial-aware Multi-view CMR Fusion for accurate 3D Left Ventricular Myocardium Segmentation. 2021 , PP,	
164	A completely automated pipeline for 3D reconstruction of human heart from 2D cine magnetic resonance slices. 2021 , 379, 20200257	5
163	A data-driven semantic segmentation model for direct cardiac functional analysis based on undersampled radial MR cine series. 2022 , 87, 972-983	1
162	A probabilistic deep motion model for unsupervised cardiac shape anomaly assessment. <i>Medical Image Analysis</i> , 2021 , 75, 102276	15.4 1
161	Semi-Automated 3D Volumetric Renal Measurements in Polycystic Kidney Disease Using b0-Images-A Feasibility Study. 2021 , 7, 573-580	
160	AI Based CMR Assessment of Biventricular Function: Clinical Significance of Intervendor Variability and Measurement Errors. 2021 , 15, 413-413	1
159	Genome-wide association and functional studies identify 46 novel loci for alcohol consumption and suggest common genetic mechanisms with neuropsychiatric disorders.	
158	The First Implication of Image Processing Techniques on Influenza A Virus Sub-Typing Based on HA/NA Protein Sequences, using Convolutional Deep Neural Network.	1
157	Reference Ranges for Left Ventricular Curvedness and Curvedness-Based Functional Indices Using Cardiovascular Magnetic Resonance in Healthy Asian Subjects. 2020 , 10, 8465	0
156	Conditional Generative Adversarial Networks for the Prediction of Cardiac Contraction from Individual Frames. 2020 , 109-118	3
155	Convolutional neural networks for automated CMR image segmentation in rats with myocardial infarcts.	

154	Automated Semantic Segmentation of Cardiac Magnetic Resonance Images with Deep Learning. 2020,		
153	A deep transfer-learning-based dynamic reinforcement learning for intelligent tightening system. 2021, 36, 1345-1365		2
152	Assessing the Impact of Blood Pressure on Cardiac Function Using Interpretable Biomarkers and Variational Autoencoders. 2020, 22-30		1
151	Dietary Fiber and Aging. 2020, 111-145		1
150	. 2021,		1
149	Selección de lo mejor del año 2019 en imagen cardiovascular. 2020, 55, 10-17		
148	Longitudinal Changes of Cardiac and Aortic Imaging Phenotypes Following COVID-19 in the UK Biobank Cohort.		0
147	Comprehensive enhanced methodology of an MRI-based automated left-ventricular chamber quantification algorithm and validation in chemotherapy-related cardiotoxicity. 2020, 7, 064002		
146	Direct left-ventricular global longitudinal strain (GLS) computation with a fully convolutional network. 2021, 130, 110878		0
145	Medical image segmentation with generative adversarial semi-supervised network. 2021, 66,		
144	Atri-U: assisted image analysis in routine cardiovascular magnetic resonance volumetry of the left atrium. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 133	6.9	1
143	Revisiting left atrial volumetry by magnetic resonance imaging: the role of atrial shape and 3D angle between left ventricular and left atrial axis. 2021, 21, 167		0
142	Short-term memory neural network-based cognitive computing in sports training complexity pattern recognition.. 2022, 1-16		2
141	Translational Cardiovascular Modeling: Tetralogy of Fallot and Modeling of Diseases. 2021, 241-276		
140	Assessment of Bi-Ventricular and Bi-Atrial Areas Using Four-Chamber Cine Cardiovascular Magnetic Resonance Imaging: Fully Automated Segmentation with a U-Net Convolutional Neural Network.. 2022, 19,		0
139	Deep-Learning Segmentation of Epicardial Adipose Tissue Using Four-Chamber Cardiac Magnetic Resonance Imaging.. 2022, 12,		1
138	Multiparametric Cardiovascular Magnetic Resonance Approach in Diagnosing, Monitoring, and Prognostication of Myocarditis.. 2021,		2
137	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study.. 2022,		0

136	Predicting myocardial infarction through retinal scans and minimal personal information. 2022 , 4, 55-61		3
135	Artificial intelligence study on left ventricular function among normal individuals, hypertrophic cardiomyopathy and dilated cardiomyopathy patients using 1.5T cardiac cine MR images obtained by SSFP sequence.. 2022 , 20201060		
134	Using Out-of-Distribution Detection for Model Refinement in Cardiac Image Segmentation. 2022 , 374-382		
133	Artificial neural networks in cardiology: analysis of graphic data. 2022 , 20, 193-204		
132	Learning to complete incomplete hearts for population analysis of cardiac MR images.. <i>Medical Image Analysis</i> , 2022 , 77, 102354	15.4	
131	Automated In-Line Artificial Intelligence Measured Global Longitudinal Shortening and Mitral Annular Plane Systolic Excursion: Reproducibility and Prognostic Significance.. 2022 , 11, e023849		0
130	Computational estimates of annular diameter reveal genetic determinants of mitral valve function and disease.. 2022 , 7,		0
129	Left atrial structure and function are associated with cardiovascular outcomes independent of left ventricular measures: a UK Biobank CMR study.. 2021 ,		2
128	Cardiac Magnetic Resonance Radiomics Reveal Differential Impact of Sex, Age, and Vascular Risk Factors on Cardiac Structure and Myocardial Tissue.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 763361	5.4	1
127	MuViMotion: Shape-aware 3D Myocardial Motion Tracking from Multi-View Cardiac MRI.. 2022 , PP,		0
126	A Systematic Quality Scoring Analysis to Assess Automated Cardiovascular Magnetic Resonance Segmentation Algorithms.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 816985	5.4	0
125	Fully automated intracardiac 4D flow MRI post-processing using deep learning for biventricular segmentation.. 2022 , 1		0
124	Improving robustness of automatic cardiac function quantification from cine magnetic resonance imaging using synthetic image data.. 2022 , 12, 2391		0
123	Predicting adverse cardiac events in sarcoidosis: deep learning from automated characterization of regional myocardial remodeling.. 2022 , 1		0
122	Cardiac MR: From Theory to Practice.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 826283	5.4	2
121	Cardiac Magnetic Resonance Left Ventricle Segmentation and Function Evaluation Using a Trained Deep-Learning Model. 2022 , 12, 2627		0
120	Multimodality Advanced Cardiovascular and Molecular Imaging for Early Detection and Monitoring of Cancer Therapy-Associated Cardiotoxicity and the Role of Artificial Intelligence and Big Data.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 829553	5.4	0
119	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 16	6.9	2

118	Machine Learning in Cardiovascular Imaging.. 2022 , 18, 245-258		0
117	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-Based Segmentation.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 859310	5.4	2
116	Training and clinical testing of artificial intelligence derived right atrial cardiovascular magnetic resonance measurements.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 25	6.9	1
115	Motion-Guided Physics-Based Learning for Cardiac MRI Reconstruction. 2021 ,		3
114	A Patch-Wise Deep Learning Approach for Myocardial Blood Flow Quantification with Robustness to Noise and Nonrigid Motion. 2021 , 2021, 4045-4051		
113	The Role of AI in Characterizing the DCM Phenotype.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 787614	5.4	0
112	Radiogenomics and Artificial Intelligence Approaches Applied to Cardiac Computed Tomography Angiography and Cardiac Magnetic Resonance for Precision Medicine in Coronary Heart Disease: A Systematic Review.. 2021 , 14, 1133-1146		1
111	The Future of Cardiac Magnetic Resonance Clinical Trials.. 2021 ,		0
110	The role of artificial intelligence in paediatric cardiovascular magnetic resonance imaging.. 2021 , 1		0
109	Automated Classification of Left Ventricular Hypertrophy on Cardiac MRI. 2022 , 12, 4151		0
108	Genome-wide association analysis and Mendelian randomization proteomics identify novel protein biomarkers and drug targets for primary prevention of heart failure.		0
107	From Accuracy to Reliability and Robustness in Cardiac Magnetic Resonance Image Segmentation: A Review. 2022 , 12, 3936		0
106	Artificial Intelligence Enabled Fully Automated CMR Function Quantification for Optimized Risk Stratification in Patients Undergoing Transcatheter Aortic Valve Replacement.. 2022 , 2022, 1368878		
105	Genetic and environmental determinants of diastolic heart function.. 2022 , 1, 361-371		0
104	Weakly supervised attention model for RV strain classification from volumetric CTPA scans.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 220, 106815	6.9	0
103	Data_Sheet_1.PDF. 2020 ,		
102	Artificial Intelligence-Based Evaluation of Functional Cardiac Magnetic Resonance Imaging. 2022 , 321-331		
101	Biobanks and Artificial Intelligence. 2022 , 81-93		0

100	Artificial Intelligence-Based Image Reconstruction in Cardiac Magnetic Resonance. 2022 , 139-147		
99	Improving the Automatic Segmentation of Elongated Organs Using Geometrical Priors. 2022 ,		
98	Myocardial Contractile Mechanics in Ischemic Mitral Regurgitation. 2022 ,		0
97	Automatic 3D+t Four-Chamber CMR Quantification of the UK Biobank: integrating imaging and non-imaging data priors at scale. <i>Medical Image Analysis</i> , 2022 , 102498	15.4	
96	Development of deep learning segmentation models for coronary X-ray angiography: Quality assessment by a new global segmentation score and comparison with human performance. 2022 ,		0
95	The Applications of Artificial Intelligence in Cardiovascular Magnetic Resonance: A Comprehensive Review. 2022 , 11, 2866		2
94	A Brief Survey on No-Reference Image Quality Assessment Methods for Magnetic Resonance Images. 2022 , 8, 160		2
93	Towards fully automated segmentation of rat cardiac MRI by leveraging deep learning frameworks. 2022 , 12,		0
92	Noninvasive Screening Tool for Hyperkalemia Using a Single-Lead Electrocardiogram and Deep Learning: Development and Usability Study. 2022 , 10, e34724		2
91	Noninvasive Screening Tool for Hyperkalemia Using a Single-Lead Electrocardiogram and Deep Learning: Development and Usability Study (Preprint).		
90	Genome-wide association analysis reveals insights into the genetic architecture of right ventricular structure and function. 2022 , 54, 783-791		0
89	Highlights of the Virtual Society for Cardiovascular Magnetic Resonance 2022 Scientific Conference: CMR: improving cardiovascular care around the world. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24,	6.9	0
88	Genetic analysis of right heart structure and function in 40,000 people. 2022 , 54, 792-803		0
87	Validation of Artificial Intelligence Cardiac MRI Measurements: Relationship to Heart Catheterization and Mortality Prediction. <i>Radiology</i> ,	20.5	0
86	Deep collaborative network with alpha matte for precise knee tissue segmentation from MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 222, 106963	6.9	1
85	Computer Aided Diagnosis (CAD) tool for MS lesions exploration In multimodal brain MRI. 2022 ,		
84	Segmentation of Different Human Organs on 3D Computer Tomography and Magnetic Resonance Imaging using an Open Source 3D U-Net Framework. 2022 ,		0
83	Performance of artificial intelligence for biventricular cardiovascular magnetic resonance volumetric analysis in the clinical setting. <i>International Journal of Cardiovascular Imaging</i> ,		1

82	Multi-Domain Variational Autoencoders for Combined Modeling of MRI-Based Biventricular Anatomy and ECG-Based Cardiac Electrophysiology. <i>Frontiers in Physiology</i> , 13,	4.6	4
81	Human vs Artificial Intelligence-Based Echocardiography Analysis as Predictor of Outcomes: An analysis from the World Alliance Societies of Echocardiography COVID study. <i>Journal of the American Society of Echocardiography</i> , 2022,	5.8	2
80	Deep Learning Based Greenhouse Image Segmentation and Shoot Phenotyping (DeepShoot). <i>Frontiers in Plant Science</i> , 13,	6.2	1
79	Cardiac MRI Segmentation With Sparse Annotations: Ensembling Deep Learning Uncertainty and Shape Priors. <i>Medical Image Analysis</i> , 2022, 102532	15.4	0
78	Activation Function Selection for U-net Multi-structures Segmentation of End-Diastole and End-Systole Frames of Cine Cardiac MRI. 2022,		
77	Deep learning enabled analysis of cardiac sphericity.		
76	Predicting post-contrast information from contrast agent free cardiac MRI using machine learning: Challenges and methods. <i>Frontiers in Cardiovascular Medicine</i> , 9,	5.4	0
75	Role of Cardiovascular Magnetic Resonance to Assess Cardiovascular Inflammation. <i>Frontiers in Cardiovascular Medicine</i> , 9,	5.4	1
74	APOE ϵ carriage associates with improved myocardial performance in older age.		
73	Artificial intelligence in cardiology: The past, present and future. 2022,		0
72	Estimation of biological heart age using cardiovascular magnetic resonance radiomics. 2022, 12,		1
71	The Role of Artificial Intelligence in Predicting Outcomes by Cardiovascular Magnetic Resonance: A Comprehensive Systematic Review. 2022, 58, 1087		0
70	K�stliche Intelligenz und Radiomics.		
69	Fully Automated Regional Analysis of Myocardial T2* Values for Iron Quantification Using Deep Learning. 2022, 11, 2749		1
68	Transverse and longitudinal right ventricular fractional parameters derived from four-chamber cine MRI are associated with right ventricular dysfunction etiology.		0
67	Embedding Gradient-Based Optimization in Image Registration Networks. 2022, 56-65		0
66	Hybrid Cardiac Imaging: The Role of Machine Learning and Artificial Intelligence. 2022, 203-222		0
65	A persistent homology-based topological loss for CNN-based multi-class segmentation of CMR. 2022, 1-1		0

64	Transformer Based Feature Fusion for Left Ventricle Segmentation in 4D Flow MRI. 2022 , 370-379	0
63	Layer Ensembles: A Single-Pass Uncertainty Estimation in Deep Learning for Segmentation. 2022 , 514-524	0
62	Automated 3D Whole-Heart Mesh Reconstruction From 2D Cine MR Slices Using Statistical Shape Model. 2022 ,	1
61	Cardiac MRI assessment of anthracycline-induced cardiotoxicity. 9,	0
60	Identification of a pleiotropic effect of ADIPOQ on cardiac dysfunction and Alzheimer's disease based on genetic evidence and health care records. 2022 , 12,	0
59	Towards automatic classification of cardiovascular magnetic resonance Task Force Criteria for diagnosis of arrhythmogenic right ventricular cardiomyopathy.	0
58	Pancreatic Cancer Detection on CT Scans with Deep Learning: A Nationwide Population-based Study.	1
57	Application of AI in cardiovascular multimodality imaging. 2022 , e10872	0
56	Environmental and genetic predictors of human cardiovascular ageing.	0
55	Genetic architecture of cardiac dynamic flow volumes.	0
54	Artificial intelligence in cardiology: Hope for the future and power for the present. 9,	0
53	Systematic Analysis of CMR Segmentation Using Deep Learning.	0
52	A review on right ventricle cardiac MRI segmentation. 1-11	0
51	Reliability of respiratory-gated real-time two-dimensional cine incorporating deep learning reconstruction for the assessment of ventricular function in an adult population.	0
50	Lower birth weight is linked to poorer cardiovascular health in middle-aged population-based adults. heartjnl-2022-321733	0
49	Automatic segmentation of the great arteries for computational hemodynamic assessment. 2022 , 24,	0
48	On the usability of synthetic data for improving the robustness of deep learning-based segmentation of cardiac magnetic resonance images. 2022 , 102688	0
47	Physicians and Machine-Learning Algorithm Performance in Predicting Left-Ventricular Systolic Dysfunction from a Standard 12-Lead-Electrocardiogram. 2022 , 11, 6767	1

- 46 Clinician's guide to trustworthy and responsible artificial intelligence in cardiovascular imaging. 9, ○
- 45 Generative myocardial motion tracking via latent space exploration with biomechanics-informed prior. **2023**, 83, 102682 ○
- 44 Separable vs. End-to-End Learning: A Critical Examination of Learning Paradigms. **2022**, 26-37 ○
- 43 Relevance of Machine Learning to Cardiovascular Imaging. **2022**, 589-605 ○
- 42 Cardiovascular magnetic resonance images with susceptibility artifacts: artificial intelligence with spatial-attention for ventricular volumes and mass assessment. **2022**, 24, ○
- 41 Association of PCSK9 Loss-of-Function Variants With Risk of Heart Failure. ○
- 40 Multi-organ imaging demonstrates the heart-brain-liver axis in UK Biobank participants. **2022**, 13, ○
- 39 Advances in machine learning applications for cardiovascular 4D flow MRI. 9, ○
- 38 Prediction of incident cardiovascular events using machine learning and CMR radiomics. ○
- 37 Multivendor Evaluation of Automated MRI Postprocessing of Biventricular Size and Function for Children With and Without Congenital Heart Defects. ○
- 36 Estimating Uncertainty in Neural Networks for Cardiac MRI Segmentation: A Benchmark Study. **2022**, 1-12 ○
- 35 MITEA: A dataset for machine learning segmentation of the left ventricle in 3D echocardiography using subject-specific labels from cardiac magnetic resonance imaging. 9, ○
- 34 Reliability of respiratory-gated real-time two-dimensional cine incorporating deep learning reconstruction for the assessment of ventricular function in an adult population. ○
- 33 Efficient Image Segmentation of Cardiac Conditions after Basketball Using a Deep Neural Network. **2023**, 12, 466 ○
- 32 Künstliche Intelligenz und Radiomics. ○
- 31 2021-2022 state of our JCMR. **2022**, 24, ○
- 30 Generative Modelling of the Ageing Heart with Cross-Sectional Imaging and Clinical Data. **2022**, 3-12 ○
- 29 Left ventricle segmentation and quantification using deep learning. **2023**, 113-147 ○

- 28 Artificial intelligence in cardiology: did it take off?. **2023**, 2, 16-22 ○
- 27 The role of obesity-related cardiovascular remodelling in mediating incident cardiovascular outcomes: a population-based observational study. ○
- 26 Deep learning can yield clinically useful right ventricular segmentations faster than fully manual analysis. **2023**, 13, ○
- 25 Artificial intelligence in cardiovascular imaging. **2023**, 51-72 ○
- 24 An Overview of Deep Learning Methods for Left Ventricle Segmentation. **2023**, 2023, 1-26 1
- 23 Artificial Intelligence in Cardiovascular CT and MR Imaging. **2023**, 13, 507 ○
- 22 Automatic uncertainty-based quality controlled T1 mapping and ECV analysis from native and post-contrast cardiac T1 mapping images using Bayesian vision transformer. **2023**, 86, 102773 ○
- 21 Deep learning-enabled analysis of medical images identifies cardiac sphericity as an early marker of cardiomyopathy and related outcomes. **2023**, ○
- 20 Deep Computational Model for the Inference of Ventricular Activation Properties. **2022**, 369-380 1
- 19 Deep Learning for Image Segmentation: A Focus on Medical Imaging. **2023**, 75, 1995-2024 ○
- 18 Update on state-of-the-art for arterial spin labeling (ASL) human perfusion imaging outside of the brain. **2023**, 89, 1754-1776 ○
- 17 Impact of Measurement Imprecision on Genetic Association Studies of Cardiac Function. ○
- 16 Artificial Intelligence for Cardiothoracic Imaging: Overview of Current and Emerging Applications. **2023**, 58, 184-195 ○
- 15 A phenotypic taxonomy of hypertrophic cardiomyopathy. ○
- 14 Machine Learning Approaches in Diagnosis, Prognosis and Treatment Selection of Cardiac Amyloidosis. **2023**, 24, 5680 ○
- 13 Image-Based Biological Heart Age Estimation Reveals Differential Aging Patterns Across Cardiac Chambers. ○
- 12 Diagnosis of Pulmonary Diseases from Chest X-ray Using Deep Learning Approaches. **2023**, 69-77 ○
- 11 Clinical and genetic associations of deep learning-derived cardiac magnetic resonance-based left ventricular mass. **2023**, 14, ○

- 10 Epoch and accuracy based empirical study for cardiac MRI segmentation using deep learning technique. 11, e14939
- 9 Transverse and longitudinal right ventricular fractional parameters derived from four-chamber cine MRI are associated with right ventricular dysfunction etiology. **2023**, 13,
- 8 Review of Ex Vivo Cardiac Electrical Mapping and Intelligent Labeling of Atrial Fibrillation Substrates. **2023**, 9, 93-103
- 7 Fourier space approach for convolutional neural network (CNN) electrocardiogram (ECG) classification: A proof-of-concept study. **2023**,
- 6 Multilevel comparison of deep learning models for function quantification in cardiovascular magnetic resonance: On the redundancy of architectural variations. 10,
- 5 Incident cardiovascular events and imaging phenotypes in UK Biobank participants with past cancer. heartjnl-2022-321888
- 4 Artificial Intelligence in Cardiology: Applications and Obstacles. **2023**, 101750
- 3 Quantitative prediction of right ventricular and size and function from the electrocardiogram.
- 2 Reducing segmentation failures in cardiac MRI via late feature fusion and GAN-based augmentation. **2023**, 161, 106973
- 1 Automated diagnosis of cardiovascular diseases from cardiac magnetic resonance imaging using deep learning models: A review. **2023**, 160, 106998