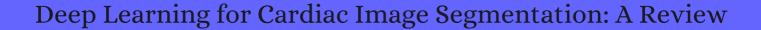
CITATION REPORT List of articles citing



DOI: 10.3389/fcvm.2020.00025 Frontiers in Cardiovascular Medicine, 2020, 7, 25.

Source: https://exaly.com/paper-pdf/76934848/citation-report.pdf

Version: 2024-04-10

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
313	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. 2020 , 15, e0230605		3
312	Utility of deep learning networks for the generation of artificial cardiac magnetic resonance images in congenital heart disease. 2020 , 20, 113		13
311	Application of Deep Learning in Cardiovascular Medicine using Multiple Biomedical Data. 2020,		
310	CemrgApp: An interactive medical imaging application with image processing, computer vision, and machine learning toolkits for cardiovascular research. 2020 , 12, 100570		12
309	Multiobject Detection Algorithm Based on Adaptive Default Box Mechanism. 2020 , 2020, 1-11		
308	Artificial Intelligence and Texture Analysis in Cardiac Imaging. 2020 , 22, 131		4
307	Micro-CT scan with virtual dissection of left ventricle is a non-destructive, reproducible alternative to dissection and weighing for left ventricular size. 2020 , 10, 13853		1
306	Glass-cutting medical images via a mechanical image segmentation method based on crack propagation. 2020 , 11, 5669		4
305	Deep learning reveals 3D atherosclerotic plaque distribution and composition. 2020 , 10, 21523		1
304	Automatic left ventricle segmentation in short-axis MRI using deep convolutional neural networks and central-line guided level set approach. 2020 , 122, 103877		4
303	Deep pyramid local attention neural network for cardiac structure segmentation in two-dimensional echocardiography. 2021 , 67, 101873		14
302	Improving cardiotoxicity prediction in cancer treatment: integration of conventional circulating biomarkers and novel exploratory tools. 2021 , 95, 791-805		2
301	Computational analysis of cardiac structure and function in congenital heart disease: Translating discoveries to clinical strategies. 2021 , 52,		1
300	Effect of vessel wall segmentation on volumetric and radiomic parameters of coronary plaques with adverse characteristics. 2021 , 15, 137-145		4
299	Semi-supervised Cardiac Image Segmentation via Label Propagation and Style Transfer. 2021 , 219-227		8
298	Generalisable Cardiac Structure Segmentation via Attentional and Stacked Image Adaptation. 2021 , 297	'-304	3
297	A Computationally Efficient Approach to Segmentation of the Aorta and Coronary Arteries Using Deep Learning. 2021 , 9, 108873-108888		2

296	Deep Neural Architectures for Medical Image Semantic Segmentation: Review. 2021 , 9, 83002-83024	9
295	A Multi-step Machine Learning Approach for Short Axis MR Images Segmentation. 2021 , 122-133	Ο
294	Unsupervised Cross-modality Cardiac Image Segmentation via Disentangled Representation Learning and Consistency Regularization. 2021 , 517-526	
293	Application of Artificial Intelligence to Cardiovascular Computed Tomography. 2021 , 22, 1597-1608	1
292	Trilateral Attention Network for Real-Time Cardiac Region Segmentation 2021 , 9, 118205-118214	2
291	Three-Dimensional Embedded Attentive RNN (3D-EAR) Segmentor for Left Ventricle Delineation from Myocardial Velocity Mapping. 2021 , 55-62	1
290	Rethinking the Dice Loss for Deep Learning Lesion Segmentation in Medical Images. 2021 , 26, 93-102	7
289	Shadow Estimation for Ultrasound Images Using Auto-Encoding Structures and Synthetic Shadows. 2021 , 11, 1127	11
288	Automated image segmentation for cardiac septal defects based on contour region with convolutional neural networks: A preliminary study. 2021 , 24, 100601	1
287	Efficient Echocardiogram View Classification with Sampling-Free Uncertainty Estimation. 2021 , 139-148	
286	Direct full quantification of the left ventricle via multitask regression and classification. 2021 , 51, 5745-5758	O
286	Direct full quantification of the left ventricle via multitask regression and classification. 2021 , 51, 5745-5758 Radiomics in cardiovascular imaging: principles and clinical implications. 2021 , 281-310	0
		o 50
285	Radiomics in cardiovascular imaging: principles and clinical implications. 2021 , 281-310	
285	Radiomics in cardiovascular imaging: principles and clinical implications. 2021 , 281-310 A Review of Deep-Learning-Based Medical Image Segmentation Methods. 2021 , 13, 1224 Ensemble of Deep Convolutional Neural Networks with Monte Carlo Dropout Sampling for Automated Image Segmentation Quality Control and Robust Deep Learning Using Small Datasets.	50
285 284 283	Radiomics in cardiovascular imaging: principles and clinical implications. 2021 , 281-310 A Review of Deep-Learning-Based Medical Image Segmentation Methods. 2021 , 13, 1224 Ensemble of Deep Convolutional Neural Networks with Monte Carlo Dropout Sampling for Automated Image Segmentation Quality Control and Robust Deep Learning Using Small Datasets. 2021 , 280-293 Sequential data assimilation for mechanical systems with complex image data: application to	50
285 284 283 282	Radiomics in cardiovascular imaging: principles and clinical implications. 2021, 281-310 A Review of Deep-Learning-Based Medical Image Segmentation Methods. 2021, 13, 1224 Ensemble of Deep Convolutional Neural Networks with Monte Carlo Dropout Sampling for Automated Image Segmentation Quality Control and Robust Deep Learning Using Small Datasets. 2021, 280-293 Sequential data assimilation for mechanical systems with complex image data: application to tagged-MRI in cardiac mechanics. 2021, 8, Left Atrial Ejection Fraction Estimation Using SEGANet for Fully Automated Segmentation of CINE	50

278	Unsupervised Domain Adaptation Network With Category-Centric Prototype Aligner for Biomedical Image Segmentation. 2021 , 9, 36500-36511	О
277	Machine Learning Driven Contouring of High-Frequency Four-Dimensional Cardiac Ultrasound Data. 2021 , 11,	1
276	Region-of-Interest-Based Cardiac Image Segmentation with Deep Learning. 2021 , 11, 1965	7
275	Sensitivity analysis for interpretation of machine learning based segmentation models in cardiac MRI. 2021 , 21, 27	7
274	Automatic segmentation of inner ear on CT-scan using auto-context convolutional neural network. 2021 , 11, 4406	1
273	A computationally efficient approach to segmentation of the aorta and coronary arteries using deep learning.	
272	Deploying deep learning approaches to left ventricular non-compaction measurement. 2021 , 77, 10138-1015	11
271	Applications of artificial intelligence in cardiovascular imaging. 2021 , 18, 600-609	23
270	Object Detection, Distributed Cloud Computing and Parallelization Techniques for Autonomous Driving Systems. 2021 , 11, 2925	2
269	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
268	Study on Potential of Meridian Acupoints of Traditional Chinese Medicine. 2021 , 2021, 5599272	1
267	Cardiac substructure exposure in breast radiotherapy: a comparison between intensity modulated proton therapy and volumetric modulated arc therapy. 2021 , 60, 1038-1044	3
266	Machine learning: principles and applications for thoracic surgery. 2021 , 60, 213-221	6
265	Edge-Sensitive Left Ventricle Segmentation Using Deep Reinforcement Learning. 2021 , 21,	5
264	Position paper of the EACVI and EANM on artificial intelligence applications in multimodality cardiovascular imaging using SPECT/CT, PET/CT, and cardiac CT. 2021 , 48, 1399-1413	11
263	Deep learning to estimate cardiac magnetic resonance-derived left ventricular mass 2021 , 2, 109-117	2
262	Whole Heart Segmentation Using 3D FM-Pre-ResNet Encoder Decoder Based Architecture with Variational Autoencoder Regularization. 2021 , 11, 3912	2
261	Instance Segmentation Based on Deep Convolutional Neural Networks and Transfer Learning for Unconstrained Psoriasis Skin Images. 2021 , 11, 3155	2

(2021-2021)

260	Validation of a deep-learning semantic segmentation approach to fully automate MRI-based left-ventricular deformation analysis in cardiotoxicity. 2021 , 94, 20201101	O
259	Quantifying inter-fraction cardiac substructure displacement during radiotherapy via magnetic resonance imaging guidance. 2021 , 18, 34-40	O
258	Echocardiographic image multi-structure segmentation using Cardiac-SegNet. 2021, 48, 2426-2437	4
257	Tissue clearing and imaging methods for cardiovascular development. 2021 , 24, 102387	4
256	Artificial intelligence development in pediatric body magnetic resonance imaging: best ideas to adapt from adults. 2021 , 1	1
255	SA-Net: A Sequence Aware Network for the Segmentation of the Left Atrium in Cine MRI Datasets. 2021 ,	O
254	Semantic Cardiac Segmentation in Chest CT Images Using K-Means Clustering and the Mathematical Morphology Method. 2021 , 21,	3
253	Performance evaluation of health recommendation system based on deep neural network. 2021 , 1131, 012013	1
252	Development of a Convolutional Neural Network Based Skull Segmentation in MRI Using Standard Tesselation Language Models. 2021 , 11,	2
251	Can Deep Learning Hit a Moving Target? A Scoping Review of Its Role to Study Neurological Disorders in Children. 2021 , 15, 670489	1
250	Anatomy-aided deep learning for medical image segmentation: a review. 2021, 66,	5
249	LCC-Net: A Lightweight Cross-Consistency Network for Semisupervised Cardiac MR Image Segmentation. 2021 , 2021, 9960199	
248	Artificial Intelligence for Automatic Measurement of Left Ventricular Strain in Echocardiography. 2021 , 14, 1918-1928	12
247	Transfer learning in medical image segmentation: New insights from analysis of the dynamics of model parameters and learned representations. 2021 , 116, 102078	11
246	Applications of artificial intelligence/machine learning approaches in cardiovascular medicine: a systematic review with recommendations. 2021 , 2, 424-436	6
245	A comprehensive comparison of various patient-specific CFD models of the left atrium for atrial fibrillation patients. 2021 , 133, 104423	5
244	Semi-Supervised Segmentation of Multi-vendor and Multi-center Cardiac MRI. 2021,	
243	LuQi Formula Regulates NLRP3 Inflammasome to Relieve Myocardial-Infarction-Induced Cardiac Remodeling in Mice. 2021 , 2021, 5518083	2

242	Automated Segmentation of the Human Abdominal Vascular System Using a Hybrid Approach Combining Expert System and Supervised Deep Learning. 2021 , 10,	2
241	A Framework for the generation of digital twins of cardiac electrophysiology from clinical 12-leads ECGs. 2021 , 71, 102080	20
240	In Situ Volumetric Imaging and Analysis of FRESH 3D Bioprinted Constructs Using Optical Coherence Tomography.	1
239	Artificial intelligence-enhanced echocardiography in the emergency department. 2021 , 33, 1117-1120	О
238	What is new in computer vision and artificial intelligence in medical image analysis applications. 2021 , 11, 3830-3853	2
237	A Virtual Reality System for Improved Image-Based Planning of Complex Cardiac Procedures. 2021 , 7,	O
236	Classification of Cardiomyopathies from MR Cine Images Using Convolutional Neural Network with Transfer Learning. 2021 , 11,	O
235	Recent Advances in Fibrosis and Scar Segmentation From Cardiac MRI: A State-of-the-Art Review and Future Perspectives. 2021 , 12, 709230	5
234	Spectral augmentation for heart chambers segmentation on conventional contrasted and unenhanced CT scans: an in-depth study. 2021 , 16, 1699-1709	О
233	Classification and Visualisation of Normal and Abnormal Radiographs; A Comparison between Eleven Convolutional Neural Network Architectures. 2021 , 21,	3
232	Artificial Intelligence in Computer Vision: Cardiac MRI and Multimodality Imaging Segmentation. 2021 , 15, 1	O
231	Multi-scale wavelet network algorithm for pediatric echocardiographic segmentation via hierarchical feature guided fusion. 2021 , 107, 107386	1
230	Multichannel Multiscale Two-Stage Convolutional Neural Network for the Detection and Localization of Myocardial Infarction Using Vectorcardiogram Signal. 2021 , 11, 7920	2
229	Self-configuring nnU-net pipeline enables fully automatic infarct segmentation in late enhancement MRI after myocardial infarction. 2021 , 141, 109817	2
228	The Impact of Data Preprocessing on the Accuracy of CNN-Based Heart Segmentation. 2022, 173-180	
227	Dynamic memory to alleviate catastrophic forgetting in continual learning with medical imaging. 2021 , 12, 5678	6
226	Outcome-based multiobjective optimization of lymphoma radiation therapy plans. 2021, 94, 20210303	1
225	Automatic Semicircular Canal Segmentation of CT Volumes Using Improved 3D U-Net with Attention Mechanism. 2021 , 2021, 9654059	2

224	Operative Workflow from CT to 3D Printing of the Heart: Opportunities and Challenges. 2021, 8,	5
223	A study on the use of Edge TPUs for eye fundus image segmentation. 2021 , 104, 104384	4
222	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
221	High-level prior-based loss functions for medical image segmentation: A survey. 2021 , 210, 103248	4
220	An Implementation of Patient-Specific Biventricular Mechanics Simulations With a Deep Learning and Computational Pipeline. 2021 , 12, 716597	1
219	Octree Representation Improves Data Fidelity of Cardiac CT Images and Convolutional Neural Network Semantic Segmentation of Left Atrial and Ventricular Chambers. 2021 , 3, e210036	O
218	The Use of Machine Learning for the Care of Hypertension and Heart[Failure. 2021, 1, 162-172	2
217	Few-Shot Learning by a Cascaded Framework With Shape-Constrained Pseudo Label Assessment for Whole Heart Segmentation. 2021 , 40, 2629-2641	3
216	MA-SOCRATIS: An automatic pipeline for robust segmentation of the left ventricle and scar. 2021 , 93, 101982	2
215	Multi-level semantic adaptation for few-shot segmentation on cardiac image sequences. 2021 , 73, 102170	6
215	Multi-level semantic adaptation for few-shot segmentation on cardiac image sequences. 2021 , 73, 102170 A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021 , 211, 106373	6 0
	A multiphase texture-based model of active contours assisted by a convolutional neural network	
214	A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021 , 211, 106373	0
214	A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021 , 211, 106373 Automated heart segmentation using U-Net in pediatric cardiac CT. 2021 , 18, 100127 Histogram Matching Augmentation for Domain Adaptation with Application to Multi-centre,	0
214 213 212	A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021, 211, 106373 Automated heart segmentation using U-Net in pediatric cardiac CT. 2021, 18, 100127 Histogram Matching Augmentation for Domain Adaptation with Application to Multi-centre, Multi-vendor and Multi-disease Cardiac Image Segmentation. 2021, 177-186 Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. 2021,	0 0 10
214 213 212 211	A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021, 211, 106373 Automated heart segmentation using U-Net in pediatric cardiac CT. 2021, 18, 100127 Histogram Matching Augmentation for Domain Adaptation with Application to Multi-centre, Multi-vendor and Multi-disease Cardiac Image Segmentation. 2021, 177-186 Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. 2021, 40, 3543-3554 Multi-frame Attention Network for Left Ventricle Segmentation in 3D Echocardiography. 2021,	o o 10
214 213 212 211 210	A multiphase texture-based model of active contours assisted by a convolutional neural network for automatic CT and MRI heart ventricle segmentation. 2021, 211, 106373 Automated heart segmentation using U-Net in pediatric cardiac CT. 2021, 18, 100127 Histogram Matching Augmentation for Domain Adaptation with Application to Multi-centre, Multi-vendor and Multi-disease Cardiac Image Segmentation. 2021, 177-186 Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. 2021, 40, 3543-3554 Multi-frame Attention Network for Left Ventricle Segmentation in 3D Echocardiography. 2021, 12901, 348-357 A Persistent Homology-Based Topological Loss Function for Multi-class CNN Segmentation of	0 0 10 64 2

206 Deep Video Networks for Automatic Assessment of Aortic Stenosis in Echocardiography. **2021**, 202-210

205	Switchable and Tunable Deep Beamformer using Adaptive Instance Normalization for Medical Ultrasound. 2021 , PP,	1
204	Deep learning based automatic segmentation of metastasis hotspots in thorax bone SPECT images. 2020 , 15, e0243253	9
203	LA-Net: A Multi-task Deep Network For The Segmentation of The Left Atrium. 2021 , PP,	3
202	MVSGAN: Spatial-aware Multi-view CMR Fusion for accurate 3D Left Ventricular Myocardium Segmentation. 2021 , PP,	
201	Mathematical Models for Computer Vision in Cardiovascular Image Segmentation. 2021 , 191-223	
200	A data-driven semantic segmentation model for direct cardiac functional analysis based on undersampled radial MR cine series. 2022 , 87, 972-983	1
199	Efficient Ventricular Parameter Estimation Using Al-Surrogate Models. 2021 , 12, 732351	
198	A probabilistic deep motion model for unsupervised cardiac shape anomaly assessment. 2021 , 75, 102276	1
197	Study of CNN Capacity Applied to Left Ventricle Segmentation in Cardiac MRI. 2021 , 2, 1	
196	Deep Learning for Classification and Selection of Cine CMR Images to Achieve Fully Automated Quality-Controlled CMR Analysis From Scanner to Report. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 742640	2
195	AI Based CMR Assessment of Biventricular Function: Clinical Significance of Intervendor Variability and Measurement Errors. 2021 , 15, 413-413	1
194	A conventional-to-spectral CT image translation augmentation workflow for robust contrast injection-independent organ segmentation. 2021 ,	О
193	Fundus image segmentation via hierarchical feature learning. 2021 , 138, 104928	1
192	BG-CNN. 2020 ,	1
191	The role of machine learning applications in diagnosing and assessing critical and non-critical CHD: a scoping review. 2021 , 31, 1770-1780	1
190	Convolutional neural networks for automated CMR image segmentation in rats with myocardial infarcts.	
189	Automated Semantic Segmentation of Cardiac Magnetic Resonance Images with Deep Learning. 2020 ,	

(2021-2022)

188	EE-Net: An edge-enhanced deep learning network for jointly identifying corneal micro-layers from optical coherence tomography. 2022 , 71, 103213	4
187	APPLICATION OF THE CONVOLUTIONAL NEURAL NETWORKS FOR THE SECURITY OF THE OBJECT RECOGNITION IN A VIDEO STREAM. 2020 , 4, 97-112	1
186	Cascaded Framework with Complementary CMR Information for Myocardial Pathology Segmentation. 2020 , 159-166	O
185	Deep learning-based ultrasonic dynamic video detection and segmentation of thyroid gland and its surrounding cervical soft tissues. 2021 ,	O
184	Direct left-ventricular global longitudinal strain (GLS) computation with a fully convolutional network. 2021 , 130, 110878	О
183	Artificial Intelligence and Cardiac PET/Computed Tomography Imaging. 2022 , 17, 85-94	О
182	Extracting heterogeneous vessels in X-ray coronary angiography via machine learning. 2022, 89-127	
181	Automatic deep learning-based myocardial infarction segmentation from delayed enhancement MRI. 2021 , 95, 102014	3
180	Left ventricular non-compaction cardiomyopathy automatic diagnosis using a deep learning approach. 2021 , 214, 106548	О
179	4D Surface Mesh Reconstruction from Segmented Cardiac Images using Subdivision Surfaces. 2021 ,	
178	Left Ventricle Segmentation based on a Segmentation-Adversarial Network with Complementary Labels. 2021 ,	
177	Native-resolution myocardial principal Eulerian strain mapping using convolutional neural networks and Tagged Magnetic Resonance Imaging. 2021 , 141, 105041	
176	Deep learning in bioengineering and biofabrication: a powerful technology boosting translation from research to clinics.	1
175	Fully automated segmentation in temporal bone CT with neural network: a preliminary assessment study. 2021 , 21, 166	3
174	Advanced Ultrasound and Photoacoustic Imaging in Cardiology. 2021 , 21,	3
173	Supervised and Semi-supervised Methods for Abdominal Organ Segmentation: A Review. 2021 , 18, 887-914	O
172	Automatic Evaluation of Histological Prognostic Factors Using Two Consecutive Convolutional Neural Networks on Kidney Samples. 2021 ,	О
171	MVnet: automated time-resolved tracking of the mitral valve plane in CMR long-axis cine images with residual neural networks: a multi-center, multi-vendor study. 2021 , 23, 137	1

170	Automatic aortic valve area detection in echocardiography images using convolutional neural networks and U-net architecture for bicuspid aortic valve recognition. 2021 ,	
169	A Review on Vessel Segmentation of X-Ray Coronary Angiography Images Based on Deep Learning. 2021 ,	
168	Deformable Bayesian Convolutional Networks for Disease-Robust Cardiac MRI Segmentation. 2022 , 296-305	1
167	Medical image segmentation using deep learning: A survey.	10
166	Simultaneous Segmentation and Motion Estimation of Left Ventricular Myocardium in BD Echocardiography Using Multi-task Learning. 2022 , 123-131	
165	A Multi-view Crossover Attention U-Net Cascade with Fourier Domain Adaptation for Multi-domain Cardiac MRI Segmentation. 2022 , 323-334	
164	Late Fusion U-Net with GAN-Based Augmentation for Generalizable Cardiac MRI Segmentation. 2022 , 360-373	2
163	Covalent coupling of Spike's receptor binding domain to a multimeric carrier produces a high immune response against SARS-CoV-2 2022 , 12, 692	1
162	Artificial Intelligence in Cardiac MRI: Is Clinical Adoption Forthcoming?. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 818765	1
161	Qualitative Evaluation of Common Quantitative Metrics for Clinical Acceptance of Automatic Segmentation: a Case Study on Heart Contouring from CT Images by Deep Learning Algorithms 2022 , 35, 240	
160	Using Out-of-Distribution Detection for Model Refinement in Cardiac Image Segmentation. 2022, 374-382	
159	Artificial Intelligence in Diagnostic Radiology: Where Do We Stand, Challenges, and Opportunities 2022 , 46,	1
158	Automated atlas-based multi-label fetal cardiac vessel segmentation in Congenital Heart Disease.	
157	Medical image analysis on left atrial LGE MRI for atrial fibrillation studies: A review 2022 , 77, 102360	2
156	Artificial Intelligence and Its Application in Cardiovascular Disease Management. 2022, 189-236	1
155	Decision Support Systems in HF based on Deep Learning Technologies 2022 , 1	О
154	Squeeze-Excitation Based Communication Behavior Recognition Approach for Spectrum Sensing Data. 2021 ,	О
153	Improved Segmentation of Cardiac MRI using efficient Pre-Processing Technique. 2022 , 15, 0-0	

A Survey on Arrhythmia Disease Detection Using Deep Learning Methods. **2022**, 55-64

151	A 3D Grouped Convolutional Network Fused with Conditional Random Field and Its Application in Image Multi-target Fine Segmentation. 2022 , 15, 1		O
150	Deep dive in retinal fundus image segmentation using deep learning for retinopathy of prematurity. 2022 , 81, 11441-11460		2
149	Improving robustness of automatic cardiac function quantification from cine magnetic resonance imaging using synthetic image data 2022 , 12, 2391		O
148	Favourable Changes in C-Peptide, C-Reactive Protein and Lipid Profile, and Improved Quality of Life in Patients with Abnormal Body Mass Index after the Use of Manual Lymphatic Drainage: A Case Series with Three-Month Follow-Up 2022 , 58,		О
147	Generalizability and quality control of deep learning-based 2D echocardiography segmentation models in a large clinical dataset 2022 , 1		O
146	Spatial-Temporal Modeling for Prediction of Stylized Human Motion. 2022,		
145	Cardiac MR: From Theory to Practice Frontiers in Cardiovascular Medicine, 2022, 9, 826283	5.4	2
144	Cardiac Magnetic Resonance Left Ventricle Segmentation and Function Evaluation Using a Trained Deep-Learning Model. 2022 , 12, 2627		О
143	Heart and bladder detection and segmentation on FDG PET/CT by deep learning 2022, 22, 58		1
142	Modality specific U-Net variants for biomedical image segmentation: a survey 2022 , 1-45		8
141	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning 2022 , 24, 16		2
140	Machine Learning and Deep Learning Techniques for Optic Disc and Cup Segmentation - A Review 2022 , 16, 747-764		О
139	A Collaborative Approach for the Development and Application of Machine Learning Solutions for CMR-Based Cardiac Disease Classification <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 829512	5.4	1
138	AB-ResUNet+: Improving Multiple Cardiovascular Structure Segmentation from Computed Tomography Angiography Images. 2022 , 12, 3024		1
137	Prediction of CRT Response Using a Lead Placement Score Derived from 4DCT.		O
136	3D characterization of the complex vascular bundle system of Hakea fruits based on X-ray microtomography (DCT) for a better understanding of the opening mechanism. 2022 , 289, 152035		1
135	Training and clinical testing of artificial intelligence derived right atrial cardiovascular magnetic resonance measurements 2022 , 24, 25		1

134	Semi-supervised learning with natural language processing for right ventricle classification in echocardiography-a scalable approach 2022 , 143, 105282	О
133	Semi-supervised segmentation of echocardiography videos via noise-resilient spatiotemporal semantic calibration and fusion 2022 , 78, 102397	3
132	Towards reliable cardiac image segmentation: Assessing image-level and pixel-level segmentation quality via self-reflective references 2022 , 78, 102426	2
131	Heart Region Segmentation using Dense VNet from Multimodality Images. 2021 , 2021, 3255-3258	
130	The Role of AI in Characterizing the DCM Phenotype Frontiers in Cardiovascular Medicine, 2021, 8, 7876 1544	О
129	Artificial intelligence with deep learning in nuclear medicine and radiology 2021 , 8, 81	1
128	Automatic Liver Segmentation in CT Images with Enhanced GAN and Mask Region-Based CNN Architectures 2021 , 2021, 9956983	О
127	A Generative Adversarial Network Fused with Dual-Attention Mechanism and Its Application in Multitarget Image Fine Segmentation 2021 , 2021, 2464648	2
126	Automating Fractional Flow Reserve (FFR) calculation from CT scans: A rapid workflow using unsupervised learning and computational fluid dynamics. 2021 , e3559	1
125	Detection-and-Excitation Neural Network Achieves Accurate Nasopharyngeal Carcinoma Segmentation in Multi-modality MR Images. 2021 ,	O
124	Segmentation of Tricuspid Valve Leaflets From Transthoracic 3D Echocardiograms of Children With Hypoplastic Left Heart Syndrome Using Deep Learning <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 735587	3
123	MFAUNet: Multiscale feature attentive U-Net for cardiac MRI structural segmentation. 2022 , 16, 1227-1242	2
122	A Multi-Resolution Deep Forest Framework with Hybrid Feature Fusion for CT Whole Heart Segmentation. 2021 ,	
121	Current Status and Future Directions of Deep Learning Applications for Safety Management in Construction. 2021 , 13, 13579	2
120	Generalization in Cardiac Image Segmentation. 2021,	
119	Overview of Deep Learning Based Cardiac MR Image Segmentation Methods. 2021,	
118	Cardiac Left Ventricle Segmentation using Recurrent U-Net and Level Set with Short Axis MRI Images. 2022 ,	
117	Local integration of deep learning for advanced visualization in congenital heart disease surgical planning. 2022 , 6, 100055	O

116	Uncertainty-guided symmetric multi-level supervision network for 3D left atrium segmentation in late gadolinium-enhanced MRI 2022 ,	1
115	Novel User-Friendly Application for MRI Segmentation of Brain Resection following Epilepsy Surgery 2022 , 12,	
114	From Accuracy to Reliability and Robustness in Cardiac Magnetic Resonance Image Segmentation: A Review. 2022 , 12, 3936	0
113	Estimation of Left Ventricular Mechanical Activation Times from Motion-Corrected Cardiac 4DCT Images.	
112	Introduction of Lazy Luna an automatic software-driven multilevel comparison of ventricular function quantification in cardiovascular magnetic resonance imaging 2022 , 12, 6629	1
111	Mutual enhancing learning-based automatic segmentation of CT cardiac substructure 2022,	1
110	LVNet: Light-Weight Model for Left Ventricle Segmentation for Short Axis Views in Echocardiographic Imaging 2022 , PP,	0
109	Artificial Intelligence-Based Evaluation of Functional Cardiac Magnetic Resonance Imaging. 2022 , 321-331	
108	Artificial Intelligence-Based Image Reconstruction in Cardiac Magnetic Resonance. 2022, 139-147	
107	Shape-Consistent Generative Adversarial Networks for Multi-Modal Medical Segmentation Maps. 2022 ,	О
106	Deep Fusion of Ultrasound Videos for Furosemide Classification. 2022,	
105	Coronary Artery Disease Detection Model Based on Class Balancing Methods and LightGBM Algorithm. 2022 , 11, 1495	
104	A Stress Test of Artificial Intelligence: Can Deep Learning Models Trained From Formal Echocardiography Accurately Interpret Point-of-Care Ultrasound?. 2022 ,	
103	The Road Toward Reproducibility of Parametric Mapping of the Heart: A Technical Review. Frontiers in Cardiovascular Medicine, 2022 , 9, 5.4	Ο
102	Automatic Time-Resolved Cardiovascular Segmentation of 4D Flow MRI Using Deep Learning 2022	Ο
101	Deep learning-based atherosclerotic coronary plaque segmentation on coronary CT angiography 2022 , 1	1
100	Physics-constrained deep active learning for spatiotemporal modeling of cardiac electrodynamics. 2022 , 105586	O
99	Machine Learning cardiac-MRI features predict mortality in newly diagnosed pulmonary arterial hypertension.	1

98	Autonomous environment-adaptive microrobot swarm navigation enabled by deep learning-based real-time distribution planning.		8
97	Deep Neural Network for Cardiac Magnetic Resonance Image Segmentation. 2022 , 8, 149		Ο
96	Towards fully automated segmentation of rat cardiac MRI by leveraging deep learning frameworks. 2022 , 12,		О
95	Development and diseases of the coronary microvasculature and its communication with the myocardium.		
94	Comparison of two-dimensional and three-dimensional U-Net architectures for segmentation of adipose tissue in cardiac magnetic resonance images.		0
93	Regional left ventricular endocardial strains estimated from low-dose 4DCT: comparison with cardiac magnetic resonance feature tracking.		Ο
92	Validation of Artificial Intelligence Cardiac MRI Measurements: Relationship to Heart Catheterization and Mortality Prediction.		О
91	Real-time echocardiography image analysis and quantification of cardiac indices. 2022, 102438		3
90	Quality of reporting in AI cardiac MRI segmentation studies [A systematic review and recommendations for future studies. <i>Frontiers in Cardiovascular Medicine</i> , 9,	5.4	О
89	Cardiac MRI Segmentation With Sparse Annotations: Ensembling Deep Learning Uncertainty and Shape Priors. 2022 , 102532		O
88	Building and evaluating an artificial intelligence algorithm: A practical guide for practicing oncologists. 2022 , 3, 42-53		
87	Activation Function Selection for U-net Multi-structures Segmentation of End-Diastole and End-Systole Frames of Cine Cardiac MRI. 2022 ,		
86	Comprehensive Study Deep Learning and Machine Learning Classification Methods for Cardiogram Images. 2023 , 3-13		
85	Shape Prior Based Myocardial Segmentation with Anatomically Motivated Pose Model. 2022 , 338-350		
84	Automatic Liver Segmentation in Pre-TIPS Cirrhotic Patients: A Preliminary Step for Radiomics Studies. 2022 , 408-418		
83	The system of personal early non-invasive diagnosis of cardiac conditions as an element of the cyber physical system. 2022 , 27, 203-210		
82	Generation of Artificial CT Images using Patch-based Conditional Generative Adversarial Networks. 2022 ,		0
81	Evaluation of a hybrid pipeline for automated segmentation of solid lesions based on mathematical algorithms and deep learning. 2022 , 12,		

80	A survey of catheter tracking concepts and methodologies. 2022 , 102584	1
79	Cardiovascular Imaging Databases: Building Machine Learning Algorithms for Regenerative Medicine.	1
78	Domain generalization in deep learning for contrast-enhanced imaging. 2022, 106052	1
77	Fully Automated Regional Analysis of Myocardial T2* Values for Iron Quantification Using Deep Learning. 2022 , 11, 2749	1
76	Optimized automated cardiac MR scar quantification with GAN-based data augmentation. 2022 , 226, 107116	1
75	Toward an automatic detection of cardiac structures in short and long axis views. 2023 , 79, 104187	1
74	Smoothness and continuity of cost functionals for ECG mismatch computation. 2022, 55, 181-186	О
73	Contrastive Re-localization and History Distillation in Federated CMR Segmentation. 2022, 256-265	Ο
72	Domain-incremental Cardiac Image Segmentation with Style-oriented Replay and Domain-sensitive Feature Whitening. 2022 , 1-1	0
71	A persistent homology-based topological loss for CNN-based multi-class segmentation of CMR. 2022 , 1-1	Ο
70	Analysis of Right Ventricle Segmentation in the End Diastolic and End Systolic Cardiac Phases Using UNet-Based Models. 2022 , 385-395	0
69	Joint Group-Wise Motion Estimation and Segmentation of Cardiac Cine MR Images Using Recurrent U-Net. 2022 , 65-74	O
68	Ensembled Prediction of Rheumatic Heart Disease from Ungated Doppler Echocardiography Acquired in Low-Resource Settings. 2022 , 602-612	O
67	Medical decision-Making based on Combined CRISP-DM Approach and CNN Classification for Cardiac MRI. 2022 ,	O
66	Predictive Power for Thrombus Detection after Atrial Appendage Closure: Machine Learning vs. Classical Methods. 2022 , 12, 1413	О
65	Automatic Segmentation of Lumbar Spine MRI Images Based on Improved Attention U-Net. 2022 , 2022, 1-10	O
64	Cardiac phase-resolved late gadolinium enhancement imaging. 9,	0
63	Fully automatic cardiac four chamber and great vessel segmentation on CT pulmonary angiography using deep learning. 9,	O

62	Artificial intelligence in cardiac magnetic resonance fingerprinting. 9,	0
61	Towards automatic classification of cardiovascular magnetic resonance Task Force Criteria for diagnosis of arrhythmogenic right ventricular cardiomyopathy.	O
60	MRI-Based Medical Image Recognition: Identification and Diagnosis of LDH. 2022 , 2022, 1-9	О
59	CMRSegTools: An open-source software enabling reproducible research in segmentation of acute myocardial infarct in CMR images. 2022 , 17, e0274491	O
58	3D U-Net based method for fast segmentation of whole heart from CT images. 2022,	O
57	In situ volumetric imaging and analysis of FRESH 3D bioprinted constructs using optical coherence tomography.	1
56	Deep learning watershed algorithm to calculate cardiac stroke volume of the left ventricle for the analysis to detect person suffering from cardiac vascular diseases using cardiac MRI data. 2022 ,	0
55	Automatic multi-anatomical skull structure segmentation of cone-beam computed tomography scans using 3D UNETR. 2022 , 17, e0275033	2
54	Systematic Analysis of CMR Segmentation Using Deep Learning.	O
53	Segmenting 3D geometry of left coronary artery from coronary CT angiography using deep learning for hemodynamic evaluation.	O
52	MMGL: Multi-Scale Multi-View Global-Local Contrastive Learning for Semi-Supervised Cardiac Image Segmentation. 2022 ,	1
51	FAS-UNet: A Novel FAS-Driven UNet to Learn Variational Image Segmentation. 2022, 10, 4055	O
50	Deep label fusion: A generalizable hybrid multi-atlas and deep convolutional neural network for medical image segmentation. 2023 , 83, 102683	1
49	Two-stage training strategy combined with neural network for segmentation of internal mammary artery graft. 2023 , 80, 104278	O
48	Imaging and surgical management of congenital heart diseases.	О
47	Automatic segmentation of the great arteries for computational hemodynamic assessment. 2022 , 24,	O
46	Co-learning of appearance and shape for precise ejection fraction estimation from echocardiographic sequences. 2022 , 102686	О
45	Fully automated cardiac MRI segmentation using dilated residual network.	0

44	Automated Measurement of Native T1 and Extracellular Volume Fraction in Cardiac Magnetic Resonance Imaging Using a Commercially Available Deep Learning Algorithm. 23,	1
43	Co-attention spatial transformer network for unsupervised motion tracking and cardiac strain analysis in 3D echocardiography. 2023 , 84, 102711	O
42	Deep Learning and Analysis of Cardiovascular Imaging. 2022 , 241-255	Ο
41	Left Ventricle Wall Segmentation in Echocardiography Using B-Mode Image and Radio Frequency Signal Jointly. 2022 ,	Ο
40	Semantic Segmentation of Whole-Body Bone Scan Image Using Btrfly-Net. 2022,	О
39	Myocardial strain imaging in Duchenne muscular dystrophy. 9,	Ο
38	3D modeling and printing for complex biventricular repair of double outlet right ventricle. 9,	Ο
37	Segmentation of biventricle in cardiac cine MRI via nested capsule dense network. 8, e1146	О
36	Artificial Intelligence in Pediatric Cardiology: A Scoping Review. 2022 , 11, 7072	2
35	Cardiovascular magnetic resonance images with susceptibility artifacts: artificial intelligence with spatial-attention for ventricular volumes and mass assessment. 2022 , 24,	Ο
34	Can global longitudinal strain (GLS) with magnetic resonance prognosticate early cancer therapy-related cardiac dysfunction (CTRCD) in breast cancer patients, a prospective study?. 2022 ,	1
33	Segmentation Model Approaches using Cardiac Magnetic Resonance Images: A Review.	Ο
32	Myocardial strain analysis of echocardiography based on deep learning. 9,	1
31	Deep learning automates detection of wall motion abnormalities via measurement of longitudinal strain from ECG-gated CT images. 9,	O
30	A literature survey of MR-based brain tumor segmentation with missing modalities. 2023, 104, 102167	Ο
29	GUDU: Geometrically-constrained Ultrasound Data augmentation in U-Net for echocardiography semantic segmentation. 2023 , 82, 104557	1
28	Deep Learning Based Parametrization of Diffeomorphic Image Registration for the Application of Cardiac Image Segmentation. 2022 ,	1
27	Comparison of Semi- and Un-Supervised Domain Adaptation Methods for Whole-Heart Segmentation. 2022 , 91-100	Ο

26	A Systematic Study of Race and Sex Bias in CNN-Based Cardiac MR Segmentation. 2022, 233-244	О
25	Cardiac Segmentation Using Transfer Learning Under Respiratory Motion Artifacts. 2022 , 392-398	O
24	Automatic Image Quality Assessment and Cardiac Segmentation Based on CMR Images. 2022, 439-446	O
23	Rapid Morphological Measurement Method of Aortic Dissection Stent Based on Spatial Observation Point Set. 2023 , 10, 139	O
22	Artificial intelligence in cardiology: did it take off?. 2023 , 2, 16-22	O
21	Deep learning can yield clinically useful right ventricular segmentations faster than fully manual analysis. 2023 , 13,	O
20	How should studies using AI be reported? lessons from a systematic review in cardiac MRI. 3,	О
19	3D-printed and computational models: a combined approach for patient-specific studies. 2023 , 105-125	O
18	Cross-Domain Echocardiography Segmentation with Multi-Space Joint Adaptation. 2023, 23, 1479	0
17	Anatomically-guided deep learning for left ventricle geometry generation with uncertainty quantification based on short-axis MR images. 2023 , 121, 106012	O
16	Image-based estimation of the left ventricular cavity volume using deep learning and Gaussian process with cardio-mechanical applications. 2023 , 106, 102203	О
15	An assessment of machine learning algorithms in diagnosing cardiovascular disease from right ventricle segmentation of cardiac magnetic resonance images. 2023 , 3, 100162	O
14	Going Off-Grid: Continuous Implicit Neural Representations for BD Vascular Modeling. 2022, 79-90	О
13	Update on state-of-the-art for arterial spin labeling (ASL) human perfusion imaging outside of the brain. 2023 , 89, 1754-1776	O
12	Assisted probe guidance in cardiac ultrasound: A review. 10,	О
11	Developing an Echocardiography-Based, Automatic Deep Learning Framework for the Differentiation of Increased Left Ventricular Wall Thickness Etiologies. 2023 , 9, 48	O
10	Artificial Intelligence as a Diagnostic Tool in Non-Invasive Imaging in the Assessment of Coronary Artery Disease. 2023 , 11, 20	O
9	A deep learning approach for fully automated cardiac shape modeling in tetralogy of Fallot. 2023 , 25,	O

CITATION REPORT

8	Atrium Segmentation Using Machine Learning. 2022 ,	Ο
7	Modelling blood flow in patients with heart valve disease using deep learning: A computationally efficient method to expand diagnostic capabilities in clinical routine. 10,	O
6	VENTSEG: efficient open source framework for ventricular segmentation. 2023,	0
5	Deep learning-based image segmentation model using an MRI-based convolutional neural network for physiological evaluation of the heart. 14,	O
4	Multilevel comparison of deep learning models for function quantification in cardiovascular magnetic resonance: On the redundancy of architectural variations. 10,	0
3	Bi-DCNet: Bilateral Network with Dilated Convolutions for Left Ventricle Segmentation. 2023 , 13, 1040	0
2	Enhancing physicians ladiology diagnostics of COVID-19 effects on lung health by leveraging artificial intelligence. 11,	0
1	Reducing segmentation failures in cardiac MRI via late feature fusion and GAN-based augmentation. 2023 , 161, 106973	O