

Karim Lekadir

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6920123/publications.pdf>

Version: 2024-02-01

48
papers

2,418
citations

430874

18
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Vessel-CAPTCHA: An efficient learning framework for vessel annotation and segmentation. <i>Medical Image Analysis</i> , 2022, 75, 102263.	11.6	15
2	Federated learning for multi-center imaging diagnostics: a simulation study in cardiovascular disease. <i>Scientific Reports</i> , 2022, 12, 3551.	3.3	31
3	Data sharing platforms: instruments to inform and shape science policy on data sharing?. <i>Scientometrics</i> , 2022, 127, 3007-3019.	3.0	7
4	LongITools: Dynamic longitudinal exposome trajectories in cardiovascular and metabolic noncommunicable diseases. <i>Environmental Epidemiology</i> , 2022, 6, e184.	3.0	6
5	Considerations for artificial intelligence clinical impact in oncologic imaging: an AI4HI position paper. <i>Insights Into Imaging</i> , 2022, 13, 89.	3.4	9
6	Center Dropout: A Simple Method for Speed and Fairness in Federated Learning. <i>Lecture Notes in Computer Science</i> , 2022, , 481-493.	1.3	1
7	Cardiac segmentation on late gadolinium enhancement MRI: A benchmark study from multi-sequence cardiac MR segmentation challenge. <i>Medical Image Analysis</i> , 2022, 81, 102528.	11.6	22
8	Identifying causative mechanisms linking early-life stress to psycho-cardio-metabolic multi-morbidity: The EarlyCause project. <i>PLoS ONE</i> , 2021, 16, e0245475.	2.5	9
9	Data preparation for artificial intelligence in medical imaging: A comprehensive guide to open-access platforms and tools. <i>Physica Medica</i> , 2021, 83, 25-37.	0.7	63
10	Women With Diabetes Are at Increased Relative Risk of Heart Failure Compared to Men: Insights From UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 658726.	2.4	13
11	Associations of Meat and Fish Consumption With Conventional and Radiomics Cardiovascular Magnetic Resonance Phenotypes in the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 667849.	2.4	7
12	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.	2.4	12
13	Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3543-3554.	8.9	168
14	Radiomics-Based Classification of Left Ventricular Non-compaction, Hypertrophic Cardiomyopathy, and Dilated Cardiomyopathy in Cardiovascular Magnetic Resonance. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 764312.	2.4	9
15	Repeatability of Cardiac Magnetic Resonance Radiomics: A Multi-Centre Multi-Vendor Test-Retest Study. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 586236.	2.4	17
16	Editorial: Current and Future Role of Artificial Intelligence in Cardiac Imaging. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 137.	2.4	9
17	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 591368.	2.4	32
18	Image-Based Cardiac Diagnosis With Machine Learning: A Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 1.	2.4	143

#	ARTICLE	IF	CITATIONS
19	A Radiomics Approach to Computer-Aided Diagnosis with Cardiac Cine-MRI. Lecture Notes in Computer Science, 2018, , 82-90.	1.3	25
20	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	6.3	61
21	Automatic initialization and quality control of large-scale cardiac MRI segmentations. Medical Image Analysis, 2018, 43, 129-141.	11.6	48
22	Learning to combine complementary segmentation methods for fetal and 6-month infant brain MRI segmentation. Computerized Medical Imaging and Graphics, 2018, 69, 52-59.	5.8	17
23	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. IEEE Transactions on Medical Imaging, 2018, 37, 2514-2525.	8.9	926
24	An atlas- and data- driven approach to initializing reaction- diffusion systems in computer cardiac electrophysiology. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2846.	2.1	3
25	A Convolutional Neural Network for Automatic Characterization of Plaque Composition in Carotid Ultrasound. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 48-55.	6.3	156
26	Estimation of trabecular bone parameters in children from multisequence MRI using texture- based regression. Medical Physics, 2016, 43, 3071-3079.	3.0	2
27	A review of heart chamber segmentation for structural and functional analysis using cardiac magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 155-195.	2.0	190
28	Patient-Specific Biomechanical Modeling of Bone Strength Using Statistically-Derived Fabric Tensors. Annals of Biomedical Engineering, 2016, 44, 234-246.	2.5	15
29	Statistical Shape Modeling Using Partial Least Squares: Application to the Assessment of Myocardial Infarction. Lecture Notes in Computer Science, 2016, , 130-139.	1.3	10
30	Statistically-driven 3D fiber reconstruction and denoising from multi-slice cardiac DTI using a Markov random field model. Medical Image Analysis, 2016, 27, 105-116.	11.6	3
31	Protective Role of False Tendon in Subjects with Left Bundle Branch Block: A Virtual Population Study. PLoS ONE, 2016, 11, e0146477.	2.5	8
32	A Predictive Model of Vertebral Trabecular Anisotropy From Ex Vivo Micro-CT. IEEE Transactions on Medical Imaging, 2015, 34, 1747-1759.	8.9	4
33	Statistical estimation of femur micro-architecture using optimal shape and density predictors. Journal of Biomechanics, 2015, 48, 598-603.	2.1	18
34	Accurate Segmentation of Vertebral Bodies and Processes Using Statistical Shape Decomposition and Conditional Models. IEEE Transactions on Medical Imaging, 2015, 34, 1627-1639.	8.9	31
35	Statistical Interspace Models (SIMs): Application to Robust 3D Spine Segmentation. IEEE Transactions on Medical Imaging, 2015, 34, 1663-1675.	8.9	44
36	A framework for optimal kernel-based manifold embedding of medical image data. Computerized Medical Imaging and Graphics, 2015, 41, 93-107.	5.8	14

#	ARTICLE	IF	CITATIONS
37	Joint Clustering and Component Analysis of Correspondenceless Point Sets: Application to Cardiac Statistical Modeling. Lecture Notes in Computer Science, 2015, 24, 98-109.	1.3	6
38	Effect of Statistically Derived Fiber Models on the Estimation of Cardiac Electrical Activation. IEEE Transactions on Biomedical Engineering, 2014, 61, 2740-2748.	4.2	7
39	A framework for the merging of pre-existing and correspondenceless 3D statistical shape models. Medical Image Analysis, 2014, 18, 1044-1058.	11.6	11
40	Automatic cardiac LV segmentation in MRI using modified graph cuts with smoothness and interslice constraints. Magnetic Resonance in Medicine, 2014, 72, 1775-1784.	3.0	35
41	Statistical Personalization of Ventricular Fiber Orientation Using Shape Predictors. IEEE Transactions on Medical Imaging, 2014, 33, 882-890.	8.9	23
42	A General Framework for Context-Specific Image Segmentation Using Reinforcement Learning. IEEE Transactions on Medical Imaging, 2013, 32, 943-956.	8.9	25
43	A High-Resolution Atlas and Statistical Model of the Human Heart From Multislice CT. IEEE Transactions on Medical Imaging, 2013, 32, 28-44.	8.9	75
44	Pattern and degree of left ventricular remodeling following a tailored surgical approach for hypertrophic obstructive cardiomyopathy. Global Cardiology Science & Practice, 2012, 2012, 9.	0.4	13
45	Inter-Point Procrustes: Identifying Regional and Large Differences in 3D Anatomical Shapes. Lecture Notes in Computer Science, 2012, 15, 99-106.	1.3	0
46	Predictive Modeling of Cardiac Fiber Orientation Using the Knutsson Mapping. Lecture Notes in Computer Science, 2011, 14, 50-57.	1.3	10
47	Outlier Detection and Handling for Robust 3-D Active Shape Models Search. IEEE Transactions on Medical Imaging, 2007, 26, 212-222.	8.9	59
48	An agenda-setting paper on data sharing platforms: euCanSHare workshop. Open Research Europe, 0, 1, 80.	2.0	3