

Antonio de Marvao

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,662
citations

201385

27
h-index

143772

57
g-index

75
all docs

75
docs citations

75
times ranked

5636
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. IEEE Transactions on Medical Imaging, 2018, 37, 384-395.	5.4	493
2	Integrated allelic, transcriptional, and phenomic dissection of the cardiac effects of titin truncations in health and disease. Science Translational Medicine, 2015, 7, 270ra6.	5.8	375
3	Titin-truncating variants affect heart function in disease cohorts and the general population. Nature Genetics, 2017, 49, 46-53.	9.4	255
4	Genetic Variants Associated With Cancer Therapy-Induced Cardiomyopathy. Circulation, 2019, 140, 31-41.	1.6	195
5	Deep-learning cardiac motion analysis for human survival prediction. Nature Machine Intelligence, 2019, 1, 95-104.	8.3	179
6	Machine Learning of Three-dimensional Right Ventricular Motion Enables Outcome Prediction in Pulmonary Hypertension: A Cardiac MR Imaging Study. Radiology, 2017, 283, 381-390.	3.6	161
7	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi-Task Deep Learning Approach. IEEE Transactions on Medical Imaging, 2019, 38, 2151-2164.	5.4	155
8	Shared genetic pathways contribute to risk of hypertrophic and dilated cardiomyopathies with opposite directions of effect. Nature Genetics, 2021, 53, 128-134.	9.4	155
9	Cardiac Image Super-Resolution with Global Correspondence Using Multi-Atlas PatchMatch. Lecture Notes in Computer Science, 2013, 16, 9-16.	1.0	150
10	Reevaluating the Genetic Contribution of Monogenic Dilated Cardiomyopathy. Circulation, 2020, 141, 387-398.	1.6	148
11	A bi-ventricular cardiac atlas built from 1000+ high resolution MR images of healthy subjects and an analysis of shape and motion. Medical Image Analysis, 2015, 26, 133-145.	7.0	119
12	Multi-input Cardiac Image Super-Resolution Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 246-254.	1.0	119
13	Quantitative approaches to variant classification increase the yield and precision of genetic testing in Mendelian diseases: the case of hypertrophic cardiomyopathy. Genome Medicine, 2019, 11, 5.	3.6	90
14	Genetic and functional insights into the fractal structure of the heart. Nature, 2020, 584, 589-594.	13.7	86
15	Body Fat Is Associated With Reduced Aortic Stiffness Until Middle Age. Hypertension, 2013, 61, 1322-1327.	1.3	80
16	Stratified Decision Forests for Accurate Anatomical Landmark Localization in Cardiac Images. IEEE Transactions on Medical Imaging, 2017, 36, 332-342.	5.4	56
17	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2021, 78, 1097-1110.	1.2	55
18	Systematic large-scale assessment of the genetic architecture of left ventricular noncompaction reveals diverse etiologies. Genetics in Medicine, 2021, 23, 856-864.	1.1	45

#	ARTICLE	IF	CITATIONS
19	Fractal analysis of left ventricular trabeculations is associated with impaired myocardial deformation in healthy Chinese. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 102.	1.6	43
20	Population-based studies of myocardial hypertrophy: high resolution cardiovascular magnetic resonance atlases improve statistical power. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 16.	1.6	42
21	Learning-Based Quality Control for Cardiac MR Images. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1127-1138.	5.4	42
22	Precursors of Hypertensive Heart Phenotype Develop in Healthy Adults. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 1260-1269.	2.3	40
23	Moderate Physical Activity in Healthy Adults Is Associated With Cardiac Remodeling. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	1.3	40
24	Disease-specific variant pathogenicity prediction significantly improves variant interpretation in inherited cardiac conditions. <i>Genetics in Medicine</i> , 2021, 23, 69-79.	1.1	39
25	Learning Interpretable Anatomical Features Through Deep Generative Models: Application to Cardiac Remodeling. <i>Lecture Notes in Computer Science</i> , 2018, , 464-471.	1.0	35
26	Artificial intelligence and the cardiologist: what you need to know for 2020. <i>Heart</i> , 2020, 106, 399-400.	1.2	35
27	Three-dimensional cardiovascular imaging-genetics: a mass univariate framework. <i>Bioinformatics</i> , 2018, 34, 97-103.	1.8	34
28	Cardiac structure and function in patients with schizophrenia taking antipsychotic drugs: an MRI study. <i>Translational Psychiatry</i> , 2019, 9, 163.	2.4	34
29	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2088-2099.	5.4	34
30	Supplementation with Iron in Pulmonary Arterial Hypertension. Two Randomized Crossover Trials. <i>Annals of the American Thoracic Society</i> , 2021, 18, 981-988.	1.5	28
31	Relationship between body composition and left ventricular geometry using three dimensional cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 32.	1.6	23
32	Fractal Analysis of Right Ventricular Trabeculae in Pulmonary Hypertension. <i>Radiology</i> , 2018, 288, 386-395.	3.6	23
33	Heart disease in women: a narrative review. <i>Anaesthesia</i> , 2021, 76, 118-130.	1.8	23
34	Noninvasive Mapping of the Electrophysiological Substrate in Cardiac Amyloidosis and Its Relationship to Structural Abnormalities. <i>Journal of the American Heart Association</i> , 2019, 8, e012097.	1.6	21
35	Genetic Studies of Hypertrophic Cardiomyopathy in Singaporeans Identify Variants in <i>TNNI3</i> and <i>TNNT2</i> That Are Common in Chinese Patients. <i>Circulation Genomic and Precision Medicine</i> , 2020, 13, 424-434.	1.6	18
36	Pulmonary Artery Stiffness Is Independently Associated with Right Ventricular Mass and Function: A Cardiac MR Imaging Study. <i>Radiology</i> , 2016, 280, 398-404.	3.6	17

#	ARTICLE	IF	CITATIONS
37	Deep Nested Level Sets: Fully Automated Segmentation of Cardiac MR Images in Patients with Pulmonary Hypertension. Lecture Notes in Computer Science, 2018, , 595-603.	1.0	17
38	Correspondence on "ACMG SF v3.0 list for reporting of secondary findings in clinical exome and genome sequencing: a policy statement of the American College of Medical Genetics and Genomics (ACMG)" by Miller et al. Genetics in Medicine, 2022, 24, 744-746.	1.1	17
39	Artificial Intelligence for Cardiac Imaging-Genetics Research. Frontiers in Cardiovascular Medicine, 2020, 6, 195.	1.1	16
40	Cardiac structure and function in schizophrenia: cardiac magnetic resonance imaging study. British Journal of Psychiatry, 2020, 217, 450-457.	1.7	15
41	Metabolic pathways associated with right ventricular adaptation to pulmonary hypertension: 3D analysis of cardiac magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2019, 20, 668-676.	0.5	13
42	Genetic and environmental determinants of diastolic heart function. , 2022, 1, 361-371.		12
43	3D High-Resolution Cardiac Segmentation Reconstruction From 2D Views Using Conditional Variational Autoencoders. , 2019, , .		11
44	Adipose tissue dysfunction, inflammation, and insulin resistance: alternative pathways to cardiac remodelling in schizophrenia. A multimodal, case-control study. Translational Psychiatry, 2021, 11, 614.	2.4	10
45	Learning a Model-Driven Variational Network for Deformable Image Registration. IEEE Transactions on Medical Imaging, 2022, 41, 199-212.	5.4	9
46	Sex and regional differences in myocardial plasticity in aortic stenosis are revealed by 3D model machine learning. European Heart Journal Cardiovascular Imaging, 2019, 21, 417-427.	0.5	7
47	Paradoxical Higher Myocardial Wall Stress and Increased Cardiac Remodeling Despite Lower Mass in Females. Journal of the American Heart Association, 2020, 9, e014781.	1.6	7
48	A Comprehensive Approach for Learning-Based Fully-Automated Inter-slice Motion Correction for Short-Axis Cine Cardiac MR Image Stacks. Lecture Notes in Computer Science, 2018, , 268-276.	1.0	5
49	Nesterov Accelerated ADMM for Fast Diffeomorphic Image Registration. Lecture Notes in Computer Science, 2021, , 150-160.	1.0	4
50	Combining Deep Learning and Shape Priors for Bi-Ventricular Segmentation of Volumetric Cardiac Magnetic Resonance Images. Lecture Notes in Computer Science, 2018, , 258-267.	1.0	3
51	Learning-Based Heart Coverage Estimation for Short-Axis Cine Cardiac MR Images. Lecture Notes in Computer Science, 2017, , 73-82.	1.0	3
52	Prediction of Clinical Information from Cardiac MRI Using Manifold Learning. Lecture Notes in Computer Science, 2015, , 91-98.	1.0	3
53	Genome wide association analysis of the heart using high-resolution 3D cardiac MRI identifies new genetic loci underlying cardiac structure and function. Journal of Cardiovascular Magnetic Resonance, 2016, 18, Q63.	1.6	2
54	The Impact of Norepinephrine on Myocardial Perfusion in Critical Illness. Journal of the American Society of Echocardiography, 2021, 34, 1019-1020.	1.2	2

#	ARTICLE	IF	CITATIONS
55	Respiratory Motion Correction for 2D Cine Cardiac MR Images using Probabilistic Edge Maps. , 0, , .		2
56	175â€¦Aortopathy-causing mutations increase aortic stiffness in healthy individuals. Heart, 2015, 101, A99.1-A99.	1.2	1
57	Use of artificial intelligence to predict survival in pulmonary hypertension. Lancet, The, 2016, 387, S35.	6.3	1
58	Development of integrated high-resolution three-dimensional MRI and computational modelling techniques to identify novel genetic and anthropometric determinants of cardiac form and function. Lancet, The, 2016, 387, S36.	6.3	1
59	121â€¦Re-evaluating the genetic contribution of monogenic dilated cardiomyopathy. , 2019, , .		1
60	Identifying the optimal regional predictor of right ventricular global function: a highâ€¦resolution threeâ€¦dimensional cardiac magnetic resonance study. Anaesthesia, 2019, 74, 312-320.	1.8	1
61	Utility of echocardiographic right ventricular subcostal strain in critical care. European Heart Journal Cardiovascular Imaging, 2021, , .	0.5	1
62	Peripartum cardiomyopathy and preâ€¦eclampsia: two tips of the same iceberg. European Journal of Heart Failure, 2021, 23, 2070-2072.	2.9	1
63	The Authors Reply:. JACC: Cardiovascular Imaging, 2016, 9, 763-764.	2.3	0
64	Exercise CMR: real-time assessment of cardiac performance with phase contrast imaging. Journal of Cardiovascular Magnetic Resonance, 2016, 18, T2.	1.6	0
65	5â€¦Defining the effects of genetic variation using machine learning analysis of CMRS: a study in hypertrophic cardiomyopathy and in a healthy population. , 2018, , .		0
66	Reply to: RV dysfunction in Covid-19 ARDS: Is there a difference in the impact of mechanical ventilation and ECMO?. International Journal of Cardiology, 2021, 332, 239.	0.8	0
67	One-stage Multi-task Detector for 3D Cardiac MR Imaging. , 2021, , .		0