Fijoy Vadakkumpadan

List of Publications by Year
in descending order

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26 papers	1,453 citations	623188 14 h-index	794141 19 g-index
27 all docs	27 docs citations	27 times ranked	1487 citing authors

#	Article	IF	Citations
1	Arrhythmia risk stratification of patients after myocardial infarction using personalized heart models. Nature Communications, 2016, 7, 11437.	5.8	302
2	Myocardial Infarct Segmentation From Magnetic Resonance Images for Personalized Modeling of Cardiac Electrophysiology. IEEE Transactions on Medical Imaging, 2016, 35, 1408-1419.	5.4	41
3	Image-based reconstruction of 3D myocardial infarct geometry for patient specific applications. Proceedings of SPIE, 2015, 9413, .	0.8	7
4	Imageâ€based reconstruction of threeâ€dimensional myocardial infarct geometry for patientâ€specific modeling of cardiac electrophysiology. Medical Physics, 2015, 42, 4579-4590.	1.6	38
5	Virtual Electrophysiological Study of Atrial Fibrillation in Fibrotic Remodeling. PLoS ONE, 2015, 10, e0117110.	1.1	122
6	Image-based left ventricular shape analysis for sudden cardiac death risk stratification. Heart Rhythm, 2014, 11, 1693-1700.	0.3	31
7	Myocardial Infarct Segmentation and Reconstruction from 2D Late-Gadolinium Enhanced Magnetic Resonance Images. Lecture Notes in Computer Science, 2014, 17, 554-561.	1.0	8
8	Placement of implantable cardioverterâ€defibrillators in paediatric and congenital heart defect patients: a pipeline for model generation and simulation prediction of optimal configurations. Journal of Physiology, 2013, 591, 4321-4334.	1.3	41
9	Feasibility of image-based simulation to estimate ablation target in human ventricular arrhythmia. Heart Rhythm, 2013, 10, 1109-1116.	0.3	184
10	Mechanistic Inquiry into the Role of Tissue Remodeling in Fibrotic Lesions in Human Atrial Fibrillation. Biophysical Journal, 2013, 104, 2764-2773.	0.2	113
11	Estimation of ventricular fiber orientations in infarcted hearts for patient-specific simulations. , 2013, , .		1
12	Patient-specific Modeling of the Heart: Estimation of Ventricular Fiber Orientations. Journal of Visualized Experiments, 2013, , .	0.2	6
13	Left-ventricular shape analysis for predicting sudden cardiac death risk. , 2012, 2012, 4067-70.		4
14	Computational cardiology: how computer simulations could be used to develop new therapies and advance existing ones. Europace, 2012, 14, v82-v89.	0.7	36
15	Methodology for patient-specific modeling of atrial fibrosis as a substrate for atrial fibrillation. Journal of Electrocardiology, 2012, 45, 640-645.	0.4	112
16	Image-Based Estimation of Ventricular Fiber Orientations for Personalized Modeling of Cardiac Electrophysiology. IEEE Transactions on Medical Imaging, 2012, 31, 1051-1060.	5.4	77
17	Image-based estimation of ventricular fiber orientations for patient-specific simulations. , 2011, 2011, 1672-5.		3
18	Imageâ€based models of cardiac structure in health and disease. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 489-506.	6.6	113

#	Article	IF	Citations
19	Modeling of Whole-Heart Electrophysiology and Mechanics: Toward Patient-Specific Simulations. , 2010, , 145-165.		16
20	Image-based models of cardiac structure with applications in arrhythmia and defibrillation studies. Journal of Electrocardiology, 2009, 42, 157.e1-157.e10.	0.4	75
21	Towards predictive modelling of the electrophysiology of the heart. Experimental Physiology, 2009, 94, 563-577.	0.9	110
22	Approximation of optimal surface parameterizations and the application in cerebral cortex mapping. Brain Structure and Function, 2008, 212, 497-511.	1.2	0
23	EMBRIOSS: ELECTROMAGNETIC BRAIN IMAGING BY OPTIMIZATION IN SPECTRAL SPACE. , 2007, , .		2
24	STATISTICAL ANALYSIS OF MORPHOLOGICAL DIFFERENCES BETWEEN BRAINS. International Journal of Neuroscience, 2006, 116, 407-418.	0.8	7
25	<title>Elastic surface registration by parameterization optimization in spectral space</title>. , 2006, 6065, 321.		1
26	POSS: efficient nonlinear optimization for parameterization methods. , 2006, 6066, 200.		1