

B Milan HorÄ;Äek

List of Publications by Year in descending order

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49
papers

930
citations

393982

19
h-index

476904

29
g-index

49
all docs

49
docs citations

49
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Inverse Solution Mapping of Epicardial Potentials. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012, 5, 1001-1009.	2.1	91
2	The inverse problem of electrocardiography: A solution in terms of single- and double-layer sources on the epicardial surface. <i>Mathematical Biosciences</i> , 1997, 144, 119-154.	0.9	84
3	Improved EASI coefficients: Their derivation, values, and performance. <i>Journal of Electrocardiology</i> , 2002, 35, 23-33.	0.4	77
4	Real-Time Localization of Ventricular Tachycardia Origin From the 12-Lead Electrocardiogram. <i>JACC: Clinical Electrophysiology</i> , 2017, 3, 687-699.	1.3	42
5	Simulated Epicardial Potential Maps During Paced Activation Reflect Myocardial Fibrous Structure. <i>Annals of Biomedical Engineering</i> , 1998, 26, 1022-1035.	1.3	37
6	Comparability of 12-lead ECGs derived from EASI leads with standard 12-lead ECGs in the classification of acute myocardial ischemia and old myocardial infarction. <i>Journal of Electrocardiology</i> , 2002, 35, 35-39.	0.4	34
7	Statistical and deterministic approaches to designing transformations of electrocardiographic leads. <i>Journal of Electrocardiology</i> , 2002, 35, 41-52.	0.4	34
8	Detection of acute ischemia from the EASI-derived 12-lead electrocardiogram and from the 12-lead electrocardiogram acquired in clinical practice. <i>Journal of Electrocardiology</i> , 2007, 40, 120-126.	0.4	34
9	Quantifying the uncertainty in model parameters using Gaussian process-based Markov chain Monte Carlo in cardiac electrophysiology. <i>Medical Image Analysis</i> , 2018, 48, 43-57.	7.0	32
10	Electrocardiographic ST-segment changes during acute myocardial ischemia. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2002, 6, 196-203.	0.9	29
11	Noninvasive epicardial and endocardial electrocardiographic imaging of scar-related ventricular tachycardia. <i>Journal of Electrocardiology</i> , 2016, 49, 887-893.	0.4	29
12	Development of an automated Selvester Scoring System for estimating the size of myocardial infarction from the electrocardiogram. <i>Journal of Electrocardiology</i> , 2006, 39, 162-168.	0.4	27
13	Using inverse electrocardiography to image myocardial infarction – reflecting on the 2007 PhysioNet/Computers in Cardiology Challenge. <i>Journal of Electrocardiology</i> , 2008, 41, 630-635.	0.4	27
14	On designing and testing transformations for derivation of standard 12-lead/18-lead electrocardiograms and vectorcardiograms from reduced sets of predictor leads. <i>Journal of Electrocardiology</i> , 2008, 41, 220-229.	0.4	25
15	Non-invasive epicardial and endocardial electrocardiographic imaging for scar-related ventricular tachycardia. <i>Europace</i> , 2018, 20, f263-f272.	0.7	23
16	Sequential Factorized Autoencoder for Localizing the Origin of Ventricular Activation From 12-Lead Electrocardiograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1505-1516.	2.5	23
17	Quantitative assessment of myocardial ischemia by electrocardiographic and scintigraphic imaging. <i>Journal of Electrocardiology</i> , 2003, 36, 17-26.	0.4	22
18	Examining the Impact of Prior Models in Transmural Electrophysiological Imaging: A Hierarchical Multiple-Model Bayesian Approach. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 229-243.	5.4	22

#	ARTICLE	IF	CITATIONS
19	Localization of Ventricular Activation Origin from the 12-Lead ECG: A Comparison of Linear Regression with Non-Linear Methods of Machine Learning. <i>Annals of Biomedical Engineering</i> , 2019, 47, 403-412.	1.3	22
20	Spatially Adaptive Multi-Scale Optimization for Local Parameter Estimation in Cardiac Electrophysiology. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1966-1978.	5.4	17
21	Generative Modeling and Inverse Imaging of Cardiac Transmembrane Potential. <i>Lecture Notes in Computer Science</i> , 2018, , 508-516.	1.0	16
22	Prospective Assessment of an Automated Intraprocedural 12-Lead ECG-Based System for Localization of Early Left Ventricular Activation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008262.	2.1	15
23	Comparison of epicardial potential maps derived from the 12-lead electrocardiograms with scintigraphic images during controlled myocardial ischemia. <i>Journal of Electrocardiology</i> , 2011, 44, 707-712.	0.4	14
24	Embedding high-dimensional Bayesian optimization via generative modeling: Parameter personalization of cardiac electrophysiological models. <i>Medical Image Analysis</i> , 2020, 62, 101670.	7.0	14
25	Validation of improved vessel-specific leads (VSLs) for detecting acute myocardial ischemia. <i>Journal of Electrocardiology</i> , 2015, 48, 1032-1039.	0.4	12
26	EASI-Derived vs standard 12-lead electrocardiogram for Selvester QRS score estimations of chronic myocardial infarct size, using cardiac magnetic resonance imaging as gold standard. <i>Journal of Electrocardiology</i> , 2009, 42, 145-151.	0.4	11
27	Discrimination of ST deviation caused by acute coronary occlusion from normal variants and other abnormal conditions, using computed electrocardiographic imaging based on 12-lead ECG. <i>Journal of Electrocardiology</i> , 2013, 46, 197-203.	0.4	11
28	Noninvasive electrocardiographic imaging of chronic myocardial infarct scar. <i>Journal of Electrocardiology</i> , 2015, 48, 952-958.	0.4	9
29	Localization of ventricular activation origin using patient-specific geometry: Preliminary results. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 979-986.	0.8	9
30	Detection of myocardial ischemia by vessel-specific leads derived from the 12-lead electrocardiogram and its subsets. <i>Journal of Electrocardiology</i> , 2008, 41, 508-517.	0.4	8
31	Improving Disentangled Representation Learning with the Beta Bernoulli Process. , 2019, , .		7
32	Feasibility study shows concordance between image-based virtual heart ablation targets and predicted ECG-based arrhythmia exit sites. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021, 44, 432-441.	0.5	7
33	Disentangling inter-subject variations: Automatic localization of ventricular tachycardia origin from 12-lead electrocardiograms. , 2017, , .		6
34	Rapid 12-lead automated localization method: Comparison to electrocardiographic imaging (ECGI) in patient-specific geometry. <i>Journal of Electrocardiology</i> , 2018, 51, S92-S97.	0.4	6
35	Automated intraprocedural localization of origin of ventricular activation using patient-specific computed tomographic imaging. <i>Heart Rhythm</i> , 2020, 17, 567-575.	0.3	6
36	Localization of Activation Origin on Patient-Specific Endocardial Surface by the Equivalent Double Layer (EDL) Source Model With Sparse Bayesian Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2287-2295.	2.5	5

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37	Learning to Disentangle Inter-Subject Anatomical Variations in Electrocardiographic Data. IEEE Transactions on Biomedical Engineering, 2022, 69, 860-870.	2.5	5
38	Assessment of an ECG-Based System for Localizing Ventricular Arrhythmias in Patients With Structural Heart Disease. Journal of the American Heart Association, 2021, 10, e022217.	1.6	5
39	Fast Posterior Estimation of Cardiac Electrophysiological Model Parameters via Bayesian Active Learning. Frontiers in Physiology, 2021, 12, 740306.	1.3	5
40	Automatic Coordinate Prediction of the Exit of Ventricular Tachycardia from 12-Lead Electrocardiogram. , 0, , .		4
41	Noninvasive Reconstruction of Transmural Transmembrane Potential With Simultaneous Estimation of Prior Model Error. IEEE Transactions on Medical Imaging, 2019, 38, 2582-2595.	5.4	4
42	Localization of Activation Origin on Patient-Specific Epicardial Surface by Empirical Bayesian Method. IEEE Transactions on Biomedical Engineering, 2019, 66, 1380-1389.	2.5	4
43	Bayesian Optimization on Large Graphs via a Graph Convolutional Generative Model: Application in Cardiac Model Personalization. Lecture Notes in Computer Science, 2019, , 458-467.	1.0	4
44	A Variational Approach to Sparse Model Error Estimation in Cardiac Electrophysiological Imaging. Lecture Notes in Computer Science, 2017, , 745-753.	1.0	4
45	Validation of the vessel-specific leads (VSLs) for acute ischemia detection on a dataset with non-ischemic ST-segment deviation. , 2015, , .		3
46	Validation of the vessel-specific leads (VSLs) for detection of acute ischemia on a dataset with non-ischemic ST-segment deviation. Journal of Electrocardiology, 2016, 49, 800-806.	0.4	2
47	Prospective Multicenter Assessment of a New Intraprocedural Automated System for Localizing Idiopathic Ventricular Arrhythmia Origins. JACC: Clinical Electrophysiology, 2021, 7, 395-407.	1.3	2
48	Lead Theory. , 2010, , 347-374.		1
49	Electric and magnetic field due to propagated excitation in anisotropic myocardial tissue. , 1992, , .		0