B Milan HorÃ¡Äek

List of Publications by Year
in descending order

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	Learning to Disentangle Inter-Subject Anatomical Variations in Electrocardiographic Data. IEEE Transactions on Biomedical Engineering, 2022, 69, 860-870.	2.5	5
2	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
3	Feasibility study shows concordance between imageâ€based virtualâ€heart ablation targets and predicted ECGâ€based arrhythmia exitâ€sites. PACE - Pacing and Clinical Electrophysiology, 2021, 44, 432-441.	0.5	7
4	Assessment of an ECGâ€Based System for Localizing Ventricular Arrhythmias in Patients With Structural Heart Disease. Journal of the American Heart Association, 2021, 10, e022217.	1.6	5
5	Fast Posterior Estimation of Cardiac Electrophysiological Model Parameters via Bayesian Active Learning. Frontiers in Physiology, 2021, 12, 740306.	1.3	5
6	Sequential Factorized Autoencoder for Localizing the Origin of Ventricular Activation From 12-Lead Electrocardiograms. IEEE Transactions on Biomedical Engineering, 2020, 67, 1505-1516.	2.5	23
7	Automated intraprocedural localization of origin of ventricular activation using patient-specific computed tomographic imaging. Heart Rhythm, 2020, 17, 567-575.	0.3	6
8	Prospective Assessment of an Automated Intraprocedural 12-Lead ECG-Based System for Localization of Early Left Ventricular Activation. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008262.	2.1	15
9	Embedding high-dimensional Bayesian optimization via generative modeling: Parameter personalization of cardiac electrophysiological models. Medical Image Analysis, 2020, 62, 101670.	7.0	14
10	Localization of Activation Origin on Patient-Specific Endocardial Surface by the Equivalent Double Layer (EDL) Source Model With Sparse Bayesian Learning. IEEE Transactions on Biomedical Engineering, 2019, 66, 2287-2295.	2.5	5
11	Localization of Ventricular Activation Origin from the 12-Lead ECG: A Comparison of Linear Regression with Non-Linear Methods of Machine Learning. Annals of Biomedical Engineering, 2019, 47, 403-412.	1.3	22
12	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
13	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
14	Improving Disentangled Representation Learning with the Beta Bernoulli Process. , 2019, , .		7
15	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
16	Non-invasive epicardial and endocardial electrocardiographic imaging for scar-related ventricular tachycardia. Europace, 2018, 20, f263-f272.	0.7	23
17	Localization of ventricular activation origin using patientâ€specific geometry: Preliminary results. Journal of Cardiovascular Electrophysiology, 2018, 29, 979-986.	0.8	9
18	Rapid 12-lead automated localization method: Comparison to electrocardiographic imaging (ECGI) in patient-specific geometry. Journal of Electrocardiology, 2018, 51, S92-S97.	0.4	6

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19	Quantifying the uncertainty in model parameters using Gaussian process-based Markov chain Monte Carlo in cardiac electrophysiology. Medical Image Analysis, 2018, 48, 43-57.	7.0	32
20	Generative Modeling and Inverse Imaging of Cardiac Transmembrane Potential. Lecture Notes in Computer Science, 2018, , 508-516.	1.0	16
21	Spatially Adaptive Multi-Scale Optimization for Local Parameter Estimation in Cardiac Electrophysiology. IEEE Transactions on Medical Imaging, 2017, 36, 1966-1978.	5.4	17
22	Real-Time Localization of VentricularÂTachycardia Origin From the 12-Lead Electrocardiogram. JACC: Clinical Electrophysiology, 2017, 3, 687-699.	1.3	42
23	Disentangling inter-subject variations: Automatic localization of ventricular tachycardia origin from 12-lead electrocardiograms. , 2017, , .		6
24	A Variational Approach to Sparse Model Error Estimation in Cardiac Electrophysiological Imaging. Lecture Notes in Computer Science, 2017, , 745-753.	1.0	4
25	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
26	Noninvasive epicardial and endocardial electrocardiographic imaging of scar-related ventricular tachycardia. Journal of Electrocardiology, 2016, 49, 887-893.	0.4	29
27	Examining the Impact of Prior Models in Transmural Electrophysiological Imaging: A Hierarchical Multiple-Model Bayesian Approach. IEEE Transactions on Medical Imaging, 2016, 35, 229-243.	5.4	22
28	Validation of the vessel-specific leads (VSLs) for acute ischemia detection on a dataset with non-ischemic ST-segment deviation. , 2015, , .		3
29	Noninvasive electrocardiographic imaging of chronic myocardial infarct scar. Journal of Electrocardiology, 2015, 48, 952-958.	0.4	9
30	Validation of improved vessel-specific leads (VSLs) for detecting acute myocardial ischemia. Journal of Electrocardiology, 2015, 48, 1032-1039.	0.4	12
31	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. Journal of Electrocardiology, 2013, 46, 197-203.	0.4	11
32	Inverse Solution Mapping of Epicardial Potentials. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 1001-1009.	2.1	91
33	Comparison of epicardial potential maps derived from the 12-lead electrocardiograms with scintigraphic images during controlled myocardial ischemia. Journal of Electrocardiology, 2011, 44, 707-712.	0.4	14
34	Lead Theory. , 2010, , 347-374.		1
35	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. Journal of Electrocardiology, 2009, 42, 145-151.	0.4	11
36	On designing and testing transformations for derivation of standard 12-lead/18-lead electrocardiograms and vectorcardiograms from reduced sets of predictor leads. Journal of Electrocardiology, 2008, 41, 220-229.	0.4	25

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37	Detection of myocardial ischemia by vessel-specific leads derived from the 12-lead electrocardiogram and its subsets. Journal of Electrocardiology, 2008, 41, 508-517.	0.4	8
38	Using inverse electrocardiography to image myocardial infarctionâ€"reflecting on the 2007 PhysioNet/Computers in Cardiology Challenge. Journal of Electrocardiology, 2008, 41, 630-635.	0.4	27
39	Detection of acute ischemia from the EASI-derived 12-lead electrocardiogram and from the 12-lead electrocardiogram acquired in clinical practice. Journal of Electrocardiology, 2007, 40, 120-126.	0.4	34
40	Development of an automated Selvester Scoring System for estimating the size of myocardial infarction from the electrocardiogram. Journal of Electrocardiology, 2006, 39, 162-168.	0.4	27
41	Quantitative assessment of myocardial ischemia by electrocardiographic and scintigraphic imaging. Journal of Electrocardiology, 2003, 36, 17-26.	0.4	22
42	Improved EASI coefficients: Their derivation, values, and performance. Journal of Electrocardiology, 2002, 35, 23-33.	0.4	77
43	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. Journal of Electrocardiology, 2002, 35, 35-39.	0.4	34
44	Statistical and deterministic approaches to designing transformations of electrocardiographic leads. Journal of Electrocardiology, 2002, 35, 41-52.	0.4	34
45	Electrocardiographic ST-segment changes during acute myocardial ischemia. Journal of Interventional Cardiac Electrophysiology, 2002, 6, 196-203.	0.9	29
46	Simulated Epicardial Potential Maps During Paced Activation Reflect Myocardial Fibrous Structure. Annals of Biomedical Engineering, 1998, 26, 1022-1035.	1.3	37
47	The inverse problem of electrocardiography: A solution in terms of single- and double-layer sources on the epicardial surface. Mathematical Biosciences, 1997, 144, 119-154.	0.9	84
48	Electric and magnetic field due to propagated excitation in anisotropic myocardial tissue. , 1992, , .		0
49	Automatic Coordinate Prediction of the Exit of Ventricular Tachycardia from 12-Lead Electrocardiogram. , 0, , .		4