

Marco A F Pimentel

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,653
citations

471061

17
h-index

476904

29
g-index

45
all docs

45
docs citations

45
times ranked

3422
citing authors

#	ARTICLE	IF	CITATIONS
1	The Use of Wearable Pulse Oximeters in the Prompt Detection of Hypoxemia and During Movement: Diagnostic Accuracy Study. <i>Journal of Medical Internet Research</i> , 2022, 24, e28890.	2.1	10
2	Reply to: Trajectories of vital signs in patients with Covid-19. <i>Resuscitation</i> , 2021, 162, 451-452.	1.3	0
3	Protocol for a systematic review assessing ambulatory vital sign monitoring impact on deterioration detection and related clinical outcomes in hospitalised patients. <i>BMJ Open</i> , 2021, 11, e047715.	0.8	1
4	Detecting Deteriorating Patients in the Hospital: Development and Validation of a Novel Scoring System. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 44-52.	2.5	39
5	A Real-Time Wearable System for Monitoring Vital Signs of COVID-19 Patients in a Hospital Setting. <i>Frontiers in Digital Health</i> , 2021, 3, 630273.	1.5	21
6	A Chest Patch for Continuous Vital Sign Monitoring: Clinical Validation Study During Movement and Controlled Hypoxia. <i>Journal of Medical Internet Research</i> , 2021, 23, e27547.	2.1	8
7	Protocol for a prospective, controlled, cross-sectional, diagnostic accuracy study to evaluate the specificity and sensitivity of ambulatory monitoring systems in the prompt detection of hypoxia and during movement. <i>BMJ Open</i> , 2020, 10, e034404.	0.8	10
8	Trajectories of vital signs in patients with COVID-19. <i>Resuscitation</i> , 2020, 156, 99-106.	1.3	47
9	Cross-sectional centiles of blood pressure by age and sex: a four-hospital database retrospective observational analysis. <i>BMJ Open</i> , 2020, 10, e033618.	0.8	0
10	Remote health diagnosis and monitoring in the time of COVID-19. <i>Physiological Measurement</i> , 2020, 41, 10TR01.	1.2	44
11	Unsupervised Bayesian Inference to Fuse Biosignal Sensory Estimates for Personalizing Care. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 47-58.	3.9	14
12	Reply to: NEWS2 needs to be tested in prospective trials involving patients with confirmed hypercapnia. <i>Resuscitation</i> , 2019, 139, 371-372.	1.3	0
13	The National Early Warning Score 2 (NEWS2). <i>Clinical Medicine</i> , 2019, 19, 260-260.	0.8	77
14	The effect of fractional inspired oxygen concentration on early warning score performance: A database analysis. <i>Resuscitation</i> , 2019, 139, 192-199.	1.3	18
15	Estimation of respiratory rate from motion contaminated photoplethysmography signals incorporating accelerometry. <i>Healthcare Technology Letters</i> , 2019, 6, 19-26.	1.9	11
16	A comparison of the ability of the National Early Warning Score and the National Early Warning Score 2 to identify patients at risk of in-hospital mortality: A multi-centre database study. <i>Resuscitation</i> , 2019, 134, 147-156.	1.3	104
17	Point process models for novelty detection on spatial point patterns and their extremes. <i>Computational Statistics and Data Analysis</i> , 2018, 125, 86-103.	0.7	4
18	A Robust Fusion Model for Estimating Respiratory Rate From Photoplethysmography and Electrocardiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2033-2041.	2.5	42

#	ARTICLE	IF	CITATIONS
19	Breathing Rate Estimation From the Electrocardiogram and Photoplethysmogram: A Review. IEEE Reviews in Biomedical Engineering, 2018, 11, 2-20.	13.1	224
20	Predicting in-hospital mortality and unanticipated admissions to the intensive care unit using routinely collected blood tests and vital signs: Development and validation of a multivariable model. Resuscitation, 2018, 133, 75-81.	1.3	40
21	Smoothing Effect in Vital Sign Recordings: Fact or Fiction? A Retrospective Cohort Analysis of Manual and Continuous Vital Sign Measurements to Assess Data Smoothing in Postoperative Care. Anesthesia and Analgesia, 2018, 127, 960-966.	1.1	6
22	Manual centile-based early warning scores derived from statistical distributions of observational vital-sign data. Resuscitation, 2018, 129, 55-60.	1.3	33
23	Toward a Robust Estimation of Respiratory Rate From Pulse Oximeters. IEEE Transactions on Biomedical Engineering, 2017, 64, 1914-1923.	2.5	197
24	Bayesian optimisation of Gaussian processes for identifying the deteriorating patient. , 2017, , .		6
25	Robust estimation of respiratory rate via ECG- and PPG-derived respiratory quality indices. , 2016, 2016, 676-679.		16
26	Outcome Prediction for Patients with Traumatic Brain Injury with Dynamic Features from Intracranial Pressure and Arterial Blood Pressure Signals: A Gaussian Process Approach. Acta Neurochirurgica Supplementum, 2016, 122, 85-91.	0.5	6
27	Heart beat detection in multimodal physiological data using a hidden semi-Markov model and signal quality indices. Physiological Measurement, 2015, 36, 1717-1727.	1.2	33
28	Intelligent Electronic Health Systems. , 2015, , 73-98.		1
29	Bayesian fusion of algorithms for the robust estimation of respiratory rate from the photoplethysmogram. , 2015, 2015, 6138-41.		5
30	The association between the neutrophil-to-lymphocyte ratio and mortality in critical illness: an observational cohort study. Critical Care, 2015, 19, 13.	2.5	124
31	A Multivariate Timeseries Modeling Approach to Severity of Illness Assessment and Forecasting in ICU with Sparse, Heterogeneous Clinical Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 2015, 446-453.	3.6	27
32	A unified approach for respiratory motion prediction and correlation with multi-task Gaussian Processes. , 2014, , .		4
33	Physiological trajectory of patients pre and post ICU discharge ¹ . , 2014, 2014, 3160-3.		4
34	A review of novelty detection. Signal Processing, 2014, 99, 215-249.	2.1	1,122
35	Multi-task Gaussian process models for biomedical applications. , 2014, , .		9
36	Predictive Monitoring of Mobile Patients by Combining Clinical Observations With Data From Wearable Sensors. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 722-730.	3.9	196

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37	Making Big Data Useful for Health Care: A Summary of the Inaugural MIT Critical Data Conference. JMIR Medical Informatics, 2014, 2, e22.	1.3	70
38	Modelling physiological deterioration in post-operative patient vital-sign data. Medical and Biological Engineering and Computing, 2013, 51, 869-877.	1.6	29
39	Probabilistic estimation of respiratory rate using Gaussian processes. , 2013, 2013, 2902-5.		14
40	Gaussian process clustering for the functional characterisation of vital-sign trajectories. , 2013, , .		14
41	Gaussian process regression in vital-sign early warning systems. , 2012, 2012, 6161-4.		20