

Christopher G Scully

List of Publications by Year in descending order

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43
papers

1,003
citations

687220

13
h-index

454834

30
g-index

43
all docs

43
docs citations

43
times ranked

1311
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological Parameter Monitoring from Optical Recordings With a Mobile Phone. IEEE Transactions on Biomedical Engineering, 2012, 59, 303-306.	2.5	394
2	Approximate entropy for all signals. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 18-23.	1.1	144
3	Regulatory Considerations for Physiological Closed-Loop Controlled Medical Devices Used for Automated Critical Care: Food and Drug Administration Workshop Discussion Topics. Anesthesia and Analgesia, 2018, 126, 1916-1925.	1.1	58
4	Statistical analysis of heart rate and heart rate variability monitoring through the use of smart phone cameras. , 2012, 2012, 1610-3.		44
5	Skin surface temperature rhythms as potential circadian biomarkers for personalized chronotherapeutics in cancer patients. Interface Focus, 2011, 1, 48-60.	1.5	40
6	Credibility Evidence for Computational Patient Models Used in the Development of Physiological Closed-Loop Controlled Devices for Critical Care Medicine. Frontiers in Physiology, 2019, 10, 220.	1.3	32
7	Detecting physiological systems with laser speckle perfusion imaging of the renal cortex. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R929-R939.	0.9	29
8	Control-oriented physiological modeling of hemodynamic responses to blood volume perturbation. Control Engineering Practice, 2018, 73, 149-160.	3.2	27
9	Assessing ECG signal quality indices to discriminate ECGs with artefacts from pathologically different arrhythmic ECGs. Physiological Measurement, 2016, 37, 1370-1382.	1.2	25
10	Using Time-Frequency Analysis of the Photoplethysmographic Waveform to Detect the Withdrawal of 900 mL of Blood. Anesthesia and Analgesia, 2012, 115, 74-81.	1.1	21
11	Effect of hemorrhage rate on early hemodynamic responses in conscious sheep. Physiological Reports, 2016, 4, e12739.	0.7	20
12	Laser speckle contrast imaging reveals large-scale synchronization of cortical autoregulation dynamics influenced by nitric oxide. American Journal of Physiology - Renal Physiology, 2015, 308, F661-F670.	1.3	18
13	Robust algorithm to locate heart beats from multiple physiological waveforms by individual signal detector voting. Physiological Measurement, 2015, 36, 1705-1716.	1.2	16
14	Evaluation of Fluid Resuscitation Control Algorithms via a Hardware-in-the-Loop Test Bed. IEEE Transactions on Biomedical Engineering, 2020, 67, 471-481.	2.5	13
15	Segmentation of Renal Perfusion Signals From Laser Speckle Imaging Into Clusters With Phase Synchronized Dynamics. IEEE Transactions on Biomedical Engineering, 2014, 61, 1989-1997.	2.5	11
16	Practical Use of Regularization in Individualizing a Mathematical Model of Cardiovascular Hemodynamics Using Scarce Data. Frontiers in Physiology, 2020, 11, 452.	1.3	11
17	Observing temperature fluctuations in humans using infrared imaging. Quantitative InfraRed Thermography Journal, 2011, 8, 21-36.	2.1	9
18	Retrospective analysis of pulse oximeter alarm settings in an intensive care unit patient population. BMC Nursing, 2016, 15, 36.	0.9	9

#	ARTICLE	IF	CITATIONS
19	Detecting Interactions between the Renal Autoregulation Mechanisms in Time and Space. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	2.5	8
20	Evaluating performance of early warning indices to predict physiological instabilities. Journal of Biomedical Informatics, 2017, 75, 14-21.	2.5	8
21	Time-Frequency Approaches for the Detection of Interactions and Temporal Properties in Renal Autoregulation. Annals of Biomedical Engineering, 2013, 41, 172-184.	1.3	7
22	Evaluation of Heart Rate and Blood Pressure Variability as Indicators of Physiological Compensation to Hemorrhage Before Shock. Shock, 2015, 43, 463-469.	1.0	7
23	Recent Advances in Medical Device Triage Technologies for Chemical, Biological, Radiological, and Nuclear Events. Prehospital and Disaster Medicine, 2015, 30, 320-323.	0.7	6
24	Heartbeat fusion algorithm to reduce false alarms for arrhythmias. , 2015, , .		6
25	Importance of re-calibration time on pulse contour analysis agreement with thermodilution measurements of cardiac output: a retrospective analysis of intensive care unit patients. Journal of Clinical Monitoring and Computing, 2016, 30, 577-586.	0.7	5
26	Progression and variability of physiologic deterioration in an ovine model of lung infection sepsis. Journal of Applied Physiology, 2017, 123, 172-181.	1.2	5
27	A robust detection algorithm to identify breathing peaks in respiration signals from spontaneously breathing subjects. , 2015, , .		4
28	Simulating Radial Pressure Waveforms with a Mock Circulatory Flow Loop to Characterize Hemodynamic Monitoring Systems. Cardiovascular Engineering and Technology, 2021, , 1.	0.7	4
29	Early detection of spontaneous blood loss using amplitude modulation of Photoplethysmogram. , 2011, 2011, 5499-502.		3
30	Advancing Regulatory Science to Bring Novel Medical Devices for Use in Emergency Care to Market: The Role of the Food and Drug Administration. Annals of Emergency Medicine, 2015, 65, 400-403.	0.3	3
31	Variability analysis for noisy physiological signals: A simulation study. , 2016, , .		3
32	A method to extract realistic artifacts from electrocardiogram recordings for robust algorithm testing. Journal of Electrocardiology, 2018, 51, S56-S60.	0.4	3
33	Accuracy assessment methods for physiological model selection toward evaluation of closed-loop controlled medical devices. PLoS ONE, 2021, 16, e0251001.	1.1	3
34	A novel ECG detector performance metric and its relationship with missing and false heart rate limit alarms. Journal of Electrocardiology, 2018, 51, 68-73.	0.4	3
35	The mixing rate of the arterial blood pressure waveform Markov chain is correlated with shock index during hemorrhage in anesthetized swine. , 2014, 2014, 3268-71.		2
36	A Real-Time Hardware-In-The-Loop Testing Platform for Closed-Loop Fluid Resuscitation. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Multivariate physiological recordings in an experimental hemorrhage model. Data in Brief, 2018, 17, 544-550.	0.5	1
38	A framework to characterize the performance of early warning index alarm systems for patient monitoring. MethodsX, 2019, 6, 1660-1667.	0.7	0
39	Technical considerations for evaluating clinical prediction indices: a case study for predicting code blue events with MEWS. Physiological Measurement, 2021, 42, 055005.	1.2	0
40	Simulating Study Design Choice Effects on Observed Performance of Predictive Patient Monitoring Alarm Algorithms. , 2021, 2021, .		0
41	Spatiotemporal analysis of renal autoregulation. FASEB Journal, 2011, 25, lb624.	0.2	0
42	Renal autoregulation dynamics monitored across the renal surface. FASEB Journal, 2013, 27, .	0.2	0
43	Model-based approach to investigate equipment-induced error in pressure-waveform derived hemodynamic measurements. Physiological Measurement, 2021, 42, 115006.	1.2	0