

# Thomas Heldt

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

1,804  
citations

13  
h-index

42  
g-index

49  
ext. papers

2,081  
ext. citations

6.1  
avg. IF

4.4  
L-index

#	Paper	IF	Citations
43	Modeling of Usual Care: Vasopressor Initiation for Sepsis With Hypotension.. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 715856	4.9	
42	Cerebral Emboli Monitoring Using Transcranial Doppler Ultrasonography in Adults and Children: A Review of the Current Technology and Clinical Applications in the Perioperative and Intensive Care Setting. <i>Anesthesia and Analgesia</i> , <b>2021</b> , 133, 379-392	3.9	2
41	Long-duration spaceflight alters estimated intracranial pressure and cerebral blood velocity. <i>Journal of Physiology</i> , <b>2021</b> , 599, 1067-1081	3.9	9
40	Distortion of the Intracranial Pressure Waveform by Extraventricular Drainage System. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1646-1657	5	1
39	Pseudo-Bayesian Model-Based Noninvasive Intracranial Pressure Estimation and Tracking. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 1604-1615	5	5
38	A Spectral Approach to Model-Based Noninvasive Intracranial Pressure Estimation. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2398-2406	7.2	3
37	Adaptive Maximal Blood Flow Velocity Estimation From Transcranial Doppler Echos. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2020</b> , 8, 1800511	3	0
36	Measuring Saccade Latency Using Smartphone Cameras. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 885-897	7.2	6
35	Model-Based Separation, Detection, and Classification of Eye Movements. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 588-600	5	2
34	Antibiotic Delays and Feasibility of a 1-Hour-From-Triage Antibiotic Requirement: Analysis of an Emergency Department Sepsis Quality Improvement Database. <i>Annals of Emergency Medicine</i> , <b>2020</b> , 75, 93-99	2.1	16
33	A Time-Frequency Approach for Cerebral Embolic Load Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 1007-1018	5	4
32	Intracranial Pressure and Intracranial Elastance Monitoring in Neurocritical Care. <i>Annual Review of Biomedical Engineering</i> , <b>2019</b> , 21, 523-549	12	19
31	Computational model of cardiovascular response to centrifugation and lower body cycling exercise. <i>Journal of Applied Physiology</i> , <b>2019</b> , 127, 1453-1468	3.7	7
30	Fully automated, real-time, calibration-free, continuous noninvasive estimation of intracranial pressure in children. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2019</b> , 1-11	2.1	14
29	Tracking autonomic balance using an open-loop model of the arterial baroreflex. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2019</b> , 316, R121-R129	3.2	1
28	Blood Pressure Coefficient of Variation and Its Association With Cardiac Surgical Outcomes. <i>Anesthesia and Analgesia</i> , <b>2018</b> , 127, 832-839	3.9	19
27	Challenges and Opportunities for Emergency Department Sepsis Screening at Triage. <i>Scientific Reports</i> , <b>2018</b> , 8, 11059	4.9	12

26	Epidemiology of patient monitoring alarms in the neonatal intensive care unit. <i>Journal of Perinatology</i> , <b>2018</b> , 38, 1030-1038	3.1	9
25	An Embedded Device for Real-Time Noninvasive Intracranial Pressure Estimation. <i>Acta Neurochirurgica Supplementum</i> , <b>2018</b> , 126, 85-88	1.7	1
24	A Waveform Archiving System for the GE Solar 8000i Bedside Monitor. <i>Acta Neurochirurgica Supplementum</i> , <b>2018</b> , 126, 173-177	1.7	3
23	Short-Term Cardiovascular Response to Short-Radius Centrifugation With and Without Ergometer Exercise. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1492	4.6	13
22	An Enhanced Mechanistic Model For Capnography, With Application To CHF-COPD Discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5267-5272	0.9	
21	Enabling Saccade Latency Measurements with Consumer-Grade Cameras <b>2018</b> ,		2
20	Presenting Symptoms Independently Predict Mortality in Septic Shock: Importance of a Previously Unmeasured Confounder. <i>Critical Care Medicine</i> , <b>2018</b> , 46, 1592-1599	1.4	68
19	Prediction of postoperative outcomes using intraoperative hemodynamic monitoring data. <i>Scientific Reports</i> , <b>2017</b> , 7, 16376	4.9	4
18	Model-Based Estimation of Respiratory Parameters from Capnography, With Application to Diagnosing Obstructive Lung Disease. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 2957-2967	5	5
17	Effects of artificial gravity on the cardiovascular system: Computational approach. <i>Acta Astronautica</i> , <b>2016</b> , 126, 395-410	2.9	17
16	Fluid dynamics of disease transmission. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 328ec36-328ec36	17.5	1
15	Noninvasive Intracranial Pressure Determination in Patients with Subarachnoid Hemorrhage. <i>Acta Neurochirurgica Supplementum</i> , <b>2016</b> , 122, 65-8	1.7	13
14	Cardiovascular responses to artificial gravity combined with exercise <b>2015</b> ,		8
13	Know the shunt flow. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 316ec208-316ec208	17.5	1
12	Beep, beeeep, beeeeeeep. <i>Science Translational Medicine</i> , <b>2015</b> , 7,	17.5	1
11	Blood pressure variability: can nonlinear dynamics enhance risk assessment during cardiovascular surgery?. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2014</b> , 28, 392-7	2.1	17
10	A computational model of hemorrhage and dehydration suggests a pathophysiological mechanism: Starling-mediated protein trapping. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 304, H620-31	5.2	9
9	Model-based noninvasive estimation of intracranial pressure from cerebral blood flow velocity and arterial pressure. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 129ra44	17.5	66

8	Continuous quantitative monitoring of cerebral oxygen metabolism in neonates by ventilator-gated analysis of NIRS recordings. <i>Acta Neurochirurgica Supplementum</i> , <b>2012</b> , 114, 177-80	1.7	7
7	Multiparameter Intelligent Monitoring in Intensive Care II: a public-access intensive care unit database. <i>Critical Care Medicine</i> , <b>2011</b> , 39, 952-60	1.4	1185
6	Model-based data integration in clinical environments. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 5209-12	0.9	1
5	CVSim: An Open-Source Cardiovascular Simulator for Teaching and Research <b>2010</b> , 3, 45-54		12
4	Integrating data, models, and reasoning in critical care. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 350-3		21
3	Cycle-Averaged Models of Cardiovascular Dynamics. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2006</b> , 53, 2459-2468		14
2	Computational modeling of cardiovascular response to orthostatic stress. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 1239-54	3.7	202
1	Integrating Data, Models, and Reasoning in Critical Care		3