Louis Atallah

List of Publications by Year
in descending order

53 papers	1,963 citations	361413 20 h-index	345221 36 g-index
53 all docs	53 docs citations	53 times ranked	2433 citing authors

#	Article	IF	Citations
1	Optimisation of clinical workflow and monitor settings safely reduces alarms in the NICU. Acta Paediatrica, International Journal of Paediatrics, 2021, 110, 1141-1150.	1.5	17
2	Perioperative measurement of core body temperature using an unobtrusive passive heat flow sensor. Journal of Clinical Monitoring and Computing, 2020, 34, 1351-1359.	1.6	7
3	Impact of a computerized decision support tool deployed in two intensive care units on acute kidney injury progression and guideline compliance: a prospective observational study. Critical Care, 2020, 24, 656.	5.8	16
4	Implementation of an automated early warning scoring system in a surgical ward: Practical use and effects on patient outcomes. PLoS ONE, 2019, 14, e0213402.	2.5	14
5	Evidence-based Clinical Decision Support Systems for the prediction and detection of three disease states in critical care: A systematic literature review. F1000Research, 2019, 8, 1728.	1.6	12
6	An ergonomic wearable core body temperature sensor. , 2018, , .		11
7	A review of recent advances in data analytics for post-operative patient deterioration detection. Journal of Clinical Monitoring and Computing, 2018, 32, 391-402.	1.6	20
8	Unobtrusive sleep state measurements in preterm infants â€“ A review. Sleep Medicine Reviews, 2017, 32, 109-122.	8.5	69
9	Features of Heart Rate Variability Capture Regulatory Changes During Kangaroo Care in Preterm Infants. Journal of Pediatrics, 2017, 182, 92-98.e1.	1.8	36
10	Pattern discovery in critical alarms originating from neonates under intensive care. Physiological Measurement, 2016, 37, 564-579.	2.1	26
11	Unobtrusive Monitoring of Neonatal Brain Temperature Using a Zero-Heat-Flux Sensor Matrix. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 100-107.	6.3	11
12	A wearable mobility assessment device for total knee replacement: AÂlongitudinal feasibility study. International Journal of Surgery, 2015, 18, 14-20.	2.7	35
13	Corrections to â€œPredicting Free-Living Energy Expenditure Using a Miniaturized Ear-Worn Sensor: An Evaluation Against Doubly Labeled Waterâ€•[Feb 14 566-575]. IEEE Transactions on Biomedical Engineering, 2014, 61, 2818-2818.	4.2	1
14	Unobtrusive ECG monitoring in the NICU using a capacitive sensing array. Physiological Measurement, 2014, 35, 895-913.	2.1	48
15	Gait asymmetry detection in older adults using a light ear-worn sensor. Physiological Measurement, 2014, 35, N29-N40.	2.1	18
16	Feature extraction from ear-worn sensor data for gait analysis. , 2014, , .		5
17	Predicting Free-Living Energy Expenditure Using a Miniaturized Ear-Worn Sensor: An Evaluation Against Doubly Labeled Water. IEEE Transactions on Biomedical Engineering, 2014, 61, 566-575.	4.2	23
18	An Ear-Worn Sensor for the Detection of Gait Impairment After Abdominal Surgery. Surgical Innovation, 2013, 20, 86-94.	0.9	11

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19	Effect of acute exacerbations on skeletal muscle strength and physical activity in cystic fibrosis. Journal of Cystic Fibrosis, 2012, 11, 209-215.	0.7	27
20	Validation of an ear-worn sensor for gait monitoring using a force-plate instrumented treadmill. Gait and Posture, 2012, 35, 674-676.	1.4	46
21	Can pervasive sensing address current challenges in global healthcare?. Journal of Epidemiology and Global Health, 2012, 2, 1.	2.9	39
22	Transition Detection and Activity Classification from Wearable Sensors Using Singular Spectrum Analysis. , 2012, , .		7
23	An Intelligent Food-Intake Monitoring System Using Wearable Sensors. , 2012, , .		83
24	Distributed inferencing with ambient and wearable sensors. Wireless Communications and Mobile Computing, 2012, 12, 117-131.	1.2	3
25	Detection and Analysis of Transitional Activity in Manifold Space. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 119-128.	3.2	17
26	Observing Recovery from Knee-Replacement Surgery by Using Wearable Sensors. , 2011, , .		28
27	Direction sensitive fall detection using a triaxial accelerometer and a barometric pressure sensor. , 2011, 2011, 369-72.		83
28	Sensor Positioning for Activity Recognition Using Wearable Accelerometers. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 320-329.	4.0	331
29	Ear-worn body sensor network device: an objective tool for functional postoperative home recovery monitoring. Journal of the American Medical Informatics Association: JAMIA, 2011, 18, 156-159.	4.4	23
30	Energy Expenditure Prediction Using a Miniaturized Ear-Worn Sensor. Medicine and Science in Sports and Exercise, 2011, 43, 1369-1377.	0.4	22
31	Sensor Placement for Activity Detection Using Wearable Accelerometers. , 2010, , .		110
32	Elderly Risk Assessment of Falls with BSN. , 2010, , .		16
33	Deployment of wireless sensors for remote elderly monitoring. , 2010, , .		4
34	Real-Time Activity Classification Using Ambient and Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 1031-1039.	3.2	79
35	Development of a Wireless Sensor Glove for Surgical Skills Assessment. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 673-679.	3.2	53
36	The use of pervasive sensing for behaviour profiling â€" a survey. Pervasive and Mobile Computing, 2009, 5, 447-464.	3.3	140

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37	Transitional Activity Recognition with Manifold Embedding. , 2009, , .		10
38	Detecting Walking Gait Impairment with an Ear-worn Sensor. , 2009, , .		44
39	Changes in prefrontal cortical behaviour depend upon familiarity on a bimanual co-ordination task: An fNIRS studyâ˜†. NeuroImage, 2008, 39, 805-813.	4.2	98
40	Gaussian Process Prediction for Cross Channel Consensus in Body Sensor Networks. , 2008, , .		3
41	Pattern mining for routine behaviour discovery in pervasive healthcare environments. , 2008, , .		21
42	Wirelessly accessible sensor populations (WASP) for elderly care monitoring. , 2008, , .		19
43	Functional prefrontal reorganization accompanies learning-associated refinements in surgery: A manifold embedding approach. Computer Aided Surgery, 2008, 13, 325-339.	1.8	33
44	From computers to ubiquitous computing by 2010: health care. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3805-3811.	3.4	18
45	Investigation of Partial Directed Coherence for Hand-Eye Coordination in Laparoscopic Training. Lecture Notes in Computer Science, 2008, , 270-278.	1.3	2
46	Wirelessly Accessible Sensor Populations (WASP) for Elderly Care Monitoring. , 2008, , .		12
47	A Pervasive Body Sensor Network for Measuring Postoperative Recovery at Home. Surgical Innovation, 2007, 14, 83-90.	0.9	81
48	Real-Time Pervasive Monitoring for Postoperative Care. IFMBE Proceedings, 2007, , 122-127.	0.3	37
49	Behaviour Profiling with Ambient and Wearable Sensing. , 2007, , 133-138.		23
50	Functional Near Infrared Spectroscopy in Novice and Expert Surgeons â€“ A Manifold Embedding Approach. , 2007, 10, 270-277.		28
51	HMM assessment of quality of movement trajectory in laparoscopic surgery. Computer Aided Surgery, 2007, 12, 335-346.	1.8	3
52	HMM Assessment of Quality of Movement Trajectory in Laparoscopic Surgery. Lecture Notes in Computer Science, 2006, 9, 752-759.	1.3	34
53	The Effect of Depth Perception on Visual-Motor Compensation in Minimal Invasive Surgery. Lecture Notes in Computer Science, 2006, , 156-163.	1.3	6