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	Sensor Positioning for Activity Recognition Using Wearable Accelerometers. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 320-329.	4.0	331
2	The use of pervasive sensing for behaviour profiling â€" a survey. Pervasive and Mobile Computing, 2009, 5, 447-464.	3.3	140
3	Sensor Placement for Activity Detection Using Wearable Accelerometers. , 2010, , .		110
4	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
5	Direction sensitive fall detection using a triaxial accelerometer and a barometric pressure sensor. , 2011, 2011, 369-72.		83
6	An Intelligent Food-Intake Monitoring System Using Wearable Sensors. , 2012, , .		83
7	A Pervasive Body Sensor Network for Measuring Postoperative Recovery at Home. Surgical Innovation, 2007, 14, 83-90.	0.9	81
8	Real-Time Activity Classification Using Ambient and Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 1031-1039.	3.2	79
9	Unobtrusive sleep state measurements in preterm infants â€" A review. Sleep Medicine Reviews, 2017, 32, 109-122.	8.5	69
10	Development of a Wireless Sensor Glove for Surgical Skills Assessment. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 673-679.	3.2	53
11	Unobtrusive ECG monitoring in the NICU using a capacitive sensing array. Physiological Measurement, 2014, 35, 895-913.	2.1	48
12	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
13	Detecting Walking Gait Impairment with an Ear-worn Sensor. , 2009, , .		44
14	Can pervasive sensing address current challenges in global healthcare?. Journal of Epidemiology and Global Health, 2012, 2, 1.	2.9	39
15	Real-Time Pervasive Monitoring for Postoperative Care. IFMBE Proceedings, 2007, , 122-127.	0.3	37
16	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
17	A wearable mobility assessment device for total knee replacement: AÂlongitudinal feasibility study. International Journal of Surgery, 2015, 18, 14-20.	2.7	35
18	HMM Assessment of Quality of Movement Trajectory in Laparoscopic Surgery. Lecture Notes in Computer Science, 2006, 9, 752-759.	1.3	34

#	Article	IF	Citations
19	Functional prefrontal reorganization accompanies learning-associated refinements in surgery: A manifold embedding approach. Computer Aided Surgery, 2008, 13, 325-339.	1.8	33
20	Observing Recovery from Knee-Replacement Surgery by Using Wearable Sensors. , 2011, , .		28
21	Functional Near Infrared Spectroscopy in Novice and Expert Surgeons â€" A Manifold Embedding Approach. , 2007, 10, 270-277.		28
22	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
23	Pattern discovery in critical alarms originating from neonates under intensive care. Physiological Measurement, 2016, 37, 564-579.	2.1	26
24	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
25	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
26	Behaviour Profiling with Ambient and Wearable Sensing. , 2007, , 133-138.		23
27	Energy Expenditure Prediction Using a Miniaturized Ear-Worn Sensor. Medicine and Science in Sports and Exercise, 2011, 43, 1369-1377.	0.4	22
28	Pattern mining for routine behaviour discovery in pervasive healthcare environments. , 2008, , .		21
29	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
30	Wirelessly accessible sensor populations (WASP) for elderly care monitoring. , 2008, , .		19
31	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
32	Gait asymmetry detection in older adults using a light ear-worn sensor. Physiological Measurement, 2014, 35, N29-N40.	2.1	18
33	Detection and Analysis of Transitional Activity in Manifold Space. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 119-128.	3.2	17
34	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
35	Elderly Risk Assessment of Falls with BSN. , 2010, , .		16
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Wirelessly Accessible Sensor Populations (WASP) for Elderly Care Monitoring. , 2008, , .		12
40	An Ear-Worn Sensor for the Detection of Gait Impairment After Abdominal Surgery. Surgical Innovation, 2013, 20, 86-94.	0.9	11
41	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
42	An ergonomic wearable core body temperature sensor. , 2018, , .		11
43	Transitional Activity Recognition with Manifold Embedding. , 2009, , .		10
44	Transition Detection and Activity Classification from Wearable Sensors Using Singular Spectrum Analysis. , 2012, , .		7
45	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
46	The Effect of Depth Perception on Visual-Motor Compensation in Minimal Invasive Surgery. Lecture Notes in Computer Science, 2006, , 156-163.	1.3	6
47	Feature extraction from ear-worn sensor data for gait analysis. , 2014, , .		5
48	Deployment of wireless sensors for remote elderly monitoring. , 2010, , .		4
49	Gaussian Process Prediction for Cross Channel Consensus in Body Sensor Networks. , 2008, , .		3
50	Distributed inferencing with ambient and wearable sensors. Wireless Communications and Mobile Computing, 2012, 12, 117-131.	1.2	3
51	HMM assessment of quality of movement trajectory in laparoscopic surgery. Computer Aided Surgery, 2007, 12, 335-346.	1.8	3
52	Investigation of Partial Directed Coherence for Hand-Eye Coordination in Laparoscopic Training. Lecture Notes in Computer Science, 2008, , 270-278.	1.3	2
53	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