

Oliver Amft

List of Publications by Citations

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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.

170
papers

3,585
citations

31
h-index

54
g-index

185
ext. papers

4,297
ext. citations

2.8
avg. IF

5.77
L-index

#	Paper	IF	Citations
170	Gesture spotting with body-worn inertial sensors to detect user activities. <i>Pattern Recognition</i> , 2008 , 41, 2010-2024	7.7	272
169	Best practice for motor imagery: a systematic literature review on motor imagery training elements in five different disciplines. <i>BMC Medicine</i> , 2011 , 9, 75	11.4	227
168	Advanced internet of things for personalised healthcare systems: A survey. <i>Pervasive and Mobile Computing</i> , 2017 , 41, 132-149	3.5	209
167	Recognition of dietary activity events using on-body sensors. <i>Artificial Intelligence in Medicine</i> , 2008 , 42, 121-36	7.4	149
166	On-Body Sensing Solutions for Automatic Dietary Monitoring. <i>IEEE Pervasive Computing</i> , 2009 , 8, 62-70	1.3	114
165	Analysis of Chewing Sounds for Dietary Monitoring. <i>Lecture Notes in Computer Science</i> , 2005 , 56-72	0.9	107
164	Recognizing Upper Body Postures using Textile Strain Sensors 2007 ,		104
163	Detection of eating and drinking arm gestures using inertial body-worn sensors		89
162	. <i>IEEE Pervasive Computing</i> , 2008 , 7, 22-31	1.3	78
161	Bite weight prediction from acoustic recognition of chewing. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1663-72	5	76
160	Estimating energy expenditure using body-worn accelerometers: a comparison of methods, sensors number and positioning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 219-26	7.2	73
159	Active Capacitive Sensing: Exploring a New Wearable Sensing Modality for Activity Recognition. <i>Lecture Notes in Computer Science</i> , 2010 , 319-336	0.9	73
158	Effect of activity monitor-based counseling on physical activity and health-related outcomes in patients with chronic diseases: A systematic review and meta-analysis. <i>Annals of Medicine</i> , 2013 , 45, 397-412	1.5	72
157	Monitoring Chewing and Eating in Free-Living Using Smart Eyeglasses. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 23-32	7.2	59
156	From Backpacks to Smartphones: Past, Present, and Future of Wearable Computers. <i>IEEE Pervasive Computing</i> , 2009 , 8, 8-13	1.3	55
155	A wearable earpad sensor for chewing monitoring 2010 ,		54
154	A Distributed PIR-based Approach for Estimating People Count in Office Environments 2012 ,		48

153	Making Regular Eyeglasses Smart. <i>IEEE Pervasive Computing</i> , 2015 , 14, 32-43	1.3	46
152	Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. <i>IEEE Sensors Journal</i> , 2013 , 13, 3935-3947	4	46
151	A benchmark dataset to evaluate sensor displacement in activity recognition 2012 ,		42
150	Methods for Detection and Classification of Normal Swallowing from Muscle Activation and Sound 2006 ,		41
149	Sensing muscle activities with body-worn sensors		39
148	Mobile Health Usage, Preferences, Barriers, and eHealth Literacy in Rheumatology: Patient Survey Study. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e19661	5.5	38
147	ETHOS: Miniature orientation sensor for wearable human motion analysis 2010 ,		37
146	LuxTrace: indoor positioning using building illumination. <i>Personal and Ubiquitous Computing</i> , 2007 , 11, 417-428	2.1	37
145	Physical activity patterns and clusters in 1001 patients with COPD. <i>Chronic Respiratory Disease</i> , 2017 , 14, 256-269	3	36
144	COPDTrainer 2013 ,		34
143	Towards wearable sensing-based assessment of fluid intake 2010 ,		34
142	Recognizing Energy-related Activities Using Sensors Commonly Installed in Office Buildings. <i>Procedia Computer Science</i> , 2013 , 19, 669-677	1.6	32
141	Diet eyeglasses: Recognising food chewing using EMG and smart eyeglasses 2016 ,		31
140	Smart table surface: A novel approach to pervasive dining monitoring 2015 ,		31
139	An opportunistic activity-sensing approach to save energy in office buildings 2013 ,		31
138	AmbientSense: A real-time ambient sound recognition system for smartphones 2013 ,		28
137	RoomSense 2013 ,		28
136	Smart Textiles: From Niche to Mainstream. <i>IEEE Pervasive Computing</i> , 2013 , 12, 81-84	1.3	26

135	SMASH: A Distributed Sensing and Processing Garment for the Classification of Upper Body Postures 2008 ,		26
134	How Wearable Computing Is Shaping Digital Health. <i>IEEE Pervasive Computing</i> , 2018 , 17, 92-98	1.3	25
133	Discovery of activity composites using topic models: An analysis of unsupervised methods. <i>Pervasive and Mobile Computing</i> , 2014 , 15, 215-227	3.5	24
132	Energy expenditure estimation using wearable sensors 2012 ,		24
131	Waving Real Hand Gestures Recorded by Wearable Motion Sensors to a Virtual Car and Driver in a Mixed-Reality Parking Game 2007 ,		24
130	Design of the QBIC wearable computing platform		24
129	Using a Thermopile Matrix Sensor to Recognize Energy-related Activities in Offices. <i>Procedia Computer Science</i> , 2013 , 19, 678-685	1.6	22
128	Probabilistic parsing of dietary activity events 2007 , 242-247		22
127	Modeling arousal phases in daily living using wearable sensors. <i>IEEE Transactions on Affective Computing</i> , 2013 , 4, 93-105	5.7	21
126	Monitoring Stress Arousal in the Wild. <i>IEEE Pervasive Computing</i> , 2013 , 12, 28-37	1.3	21
125	Rapid prototyping of smart garments for activity-aware applications. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2009 , 1, 87-101	2.2	21
124	A stepwise validation of a wearable system for estimating energy expenditure in field-based research. <i>Physiological Measurement</i> , 2011 , 32, 1983-2001	2.9	21
123	Early Indication of Decompensated Heart Failure in Patients on Home-Telemonitoring: A Comparison of Prediction Algorithms Based on Daily Weight and Noninvasive Transthoracic Bio-impedance. <i>JMIR Medical Informatics</i> , 2016 , 4, e3	3.6	21
122	Detecting Disordered Breathing and Limb Movement Using In-Bed Force Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 930-938	7.2	19
121	Cardiorespiratory fitness estimation in free-living using wearable sensors. <i>Artificial Intelligence in Medicine</i> , 2016 , 68, 37-46	7.4	18
120	Estimating posture-recognition performance in sensing garments using geometric wrinkle modeling. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1436-45		17
119	Smart medical textiles for monitoring patients with heart conditions 2007 , 275-301		16
118	Distributed Activity Recognition with Fuzzy-Enabled Wireless Sensor Networks 2008 , 296-313		16

117	Personalizing 3D-Printed Smart Eyeglasses to Augment Daily Life. <i>Computer</i> , 2017 , 50, 26-35	1.6	15
116	Bite glasses 2016 ,		15
115	Automatic Event-Based Synchronization of Multimodal Data Streams from Wearable and Ambient Sensors. <i>Lecture Notes in Computer Science</i> , 2009 , 135-148	0.9	15
114	What Will We Wear After Smartphones?. <i>IEEE Pervasive Computing</i> , 2017 , 16, 80-85	1.3	14
113	Performance Analysis of an HMM-Based Gesture Recognition Using a Wristwatch Device 2009 ,		14
112	Recognition of User Activity Sequences Using Distributed Event Detection 2007 , 126-141		14
111	Distributed Modular Toolbox for Multi-modal Context Recognition. <i>Lecture Notes in Computer Science</i> , 2006 , 99-113	0.9	14
110	Free-living eating event spotting using EMG-monitoring eyeglasses 2018 ,		13
109	SimpleSkin 2015 ,		13
108	. <i>IEEE Pervasive Computing</i> , 2015 , 14, 46-56	1.3	13
107	Recognizing Daily Life Context Using Web-Collected Audio Data 2012 ,		13
106	Combining wearable accelerometer and physiological data for activity and energy expenditure estimation 2013 ,		13
105	On-Body Sensing: From Gesture-Based Input to Activity-Driven Interaction. <i>Computer</i> , 2010 , 43, 92-96	1.6	13
104	Sparse natural gesture spotting in free living to monitor drinking with wrist-worn inertial sensors 2018 ,		13
103	Regular-look eyeglasses can monitor chewing 2016 ,		12
102	Unsupervised activity clustering to estimate energy expenditure with a single body sensor 2013 ,		12
101	Daily life activity routine discovery in hemiparetic rehabilitation patients using topic models. <i>Methods of Information in Medicine</i> , 2015 , 54, 248-55	1.5	12
100	Hands-free gesture control with a capacitive textile neckband 2014 ,		12

99	Cardiorespiratory fitness estimation using wearable sensors: Laboratory and free-living analysis of context-specific submaximal heart rates. <i>Journal of Applied Physiology</i> , 2016 , 120, 1082-96	3.7	12
98	Estimating Oxygen Uptake During Nonsteady-State Activities and Transitions Using Wearable Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 469-75	7.2	11
97	BodyANT: Miniature wireless sensors for naturalistic monitoring of daily activity 2009 ,		11
96	Textile Building Blocks: Toward Simple, Modularized, and Standardized Smart Textile. <i>Human-computer Interaction Series</i> , 2017 , 303-331	0.6	11
95	Estimating wearable motion sensor performance from personal biomechanical models and sensor data synthesis. <i>Scientific Reports</i> , 2020 , 10, 11450	4.9	11
94	Personalizing energy expenditure estimation using physiological signals normalization during activities of daily living. <i>Physiological Measurement</i> , 2014 , 35, 1797-811	2.9	10
93	Improving energy efficiency through activity-aware control of office appliances using proximity sensing - A real-life study 2013 ,		10
92	Smart Energy Systems. <i>IEEE Pervasive Computing</i> , 2011 , 10, 63-65	1.3	10
91	Wearable therapist 2009 ,		10
90	Influence of a loose-fitting sensing garment on posture recognition in rehabilitation 2008 ,		10
89	Transfer Learning in Body Sensor Networks Using Ensembles of Randomized Trees. <i>IEEE Internet of Things Journal</i> , 2015 , 2, 33-40	10.7	9
88	2014 ,		9
87	Service-Oriented Architecture for Smart Environments (Short Paper) 2013 ,		9
86	Modeling and simulation of sensor orientation errors in garments 2009 ,		9
85	Privacy Risk Awareness in Wearables and the Internet of Things. <i>IEEE Pervasive Computing</i> , 2020 , 19, 60-66	1.3	9
84	Ambient, On-Body, and Implantable Monitoring Technologies to Assess Dietary Behavior 2011 , 3507-3526		9
83	Wearables and the Brain. <i>IEEE Pervasive Computing</i> , 2019 , 18, 94-100	1.3	8
82	Using implicit user feedback to balance energy consumption and user comfort of proximity-controlled computer screens. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2015 , 6, 207-221	3.7	8

81	A green autonomous self-sustaining sensor node for counting people in office environments 2012 ,		8
80	Retrieval and Timing Performance of Chewing-Based Eating Event Detection in Wearable Sensors. <i>Sensors</i> , 2020 , 20,	3.8	8
79	Does loose fitting matter? Predicting sensor performance in smart garments. 2012 ,		8
78	Wearables to Fight COVID-19: From Symptom Tracking to Contact Tracing. <i>IEEE Pervasive Computing</i> , 2020 , 19, 53-60	1.3	8
77	Automatic Dietary Monitoring Using Wearable Accessories 2018 , 369-412		8
76	Personalized cardiorespiratory fitness and energy expenditure estimation using hierarchical Bayesian models. <i>Journal of Biomedical Informatics</i> , 2015 , 56, 195-204	10.2	7
75	Longitudinal Walking Analysis in Hemiparetic Patients Using Wearable Motion Sensors: Is There Convergence Between Body Sides?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 57	5.8	7
74	Computer Screen Use Detection Using Smart Eyeglasses. <i>Frontiers in ICT</i> , 2017 , 4,	3.6	7
73	How much light do you get? 2014 ,		7
72	Personalizing Energy Expenditure Estimation Using a Cardiorespiratory Fitness Predicate 2013 ,		7
71	Usability of digital media in patients with COPD: a pilot study. <i>International Journal of Technology Assessment in Health Care</i> , 2013 , 29, 162-5	1.8	7
70	Adaptive Activity Spotting Based on Event Rates 2010 ,		7
69	Arousal pattern analysis of an Olympic champion in ski jumping. <i>Sports Technology</i> , 2010 , 3, 192-203		7
68	Novel stochastic model for presence detection using ultrasound ranging sensors 2014 ,		6
67	Estimating physical ability of stroke patients without specific tests 2015 ,		6
66	Evaluating Daily Life Activity Using Smartphones as Novel Outcome Measure for Surgical Pain Therapy 2013 ,		6
65	Gesture-Controlled User Input to Complete Questionnaires on Wrist-Worn Watches. <i>Lecture Notes in Computer Science</i> , 2009 , 131-140	0.9	6
64	Estimating Running Performance Combining Non-invasive Physiological Measurements and Training Patterns in Free-Living. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 2815-2818	0.9	6

63	Personalization of Energy Expenditure Estimation in Free Living Using Topic Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1577-86	7.2	5
62	A Hierarchical Bayesian Approach to Modeling Heterogeneity in Speech Quality Assessment. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012 , 20, 136-146		5
61	Mining relations and physical grouping of building-embedded sensors and actuators 2015 ,		5
60	A bayesian hierarchical mixture of experts approach to estimate speech quality 2010 ,		5
59	An Interdisciplinary Approach to Designing Adaptive Lighting Environments 2011 ,		5
58	WISEglass: Smart eyeglasses recognising context 2015 ,		5
57	Personalized Pervasive Health. <i>IEEE Pervasive Computing</i> , 2020 , 19, 11-13	1.3	5
56	WISEglass 2015 ,		4
55	Relation between estimated cardiorespiratory fitness and running performance in free-living: An analysis of HRV4Training data 2017 ,		4
54	Joint segmentation and activity discovery using semantic and temporal priors 2015 ,		4
53	Hierarchical motion artefact compensation in smart garments 2014 ,		4
52	Collaborative personal speaker identification: A generalized approach. <i>Pervasive and Mobile Computing</i> , 2012 , 8, 415-428	3.5	4
51	Activity monitoring in daily life as an outcome measure for surgical pain relief intervention using smartphones 2013 ,		4
50	Body weight-normalized Energy Expenditure estimation using combined activity and allometric scaling clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6752-5	0.9	4
49	Reducing motion artifacts for robust QRS detection in capacitive sensor arrays 2011 ,		4
48	Self-Taught Learning for Activity Spotting in On-body Motion Sensor Data 2011 ,		4
47	Automatic Identification of Temporal Sequences in Chewing Sounds 2007 ,		4
46	Design Challenges of Real Wearable Computers 2015 , 602-637		4

45	Wearable motion sensors and digital biomarkers in stroke rehabilitation. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 229-232	0.5	4
44	Analysis of Heart Stress Response for a Public Talk Assistant System. <i>Lecture Notes in Computer Science</i> , 2008 , 326-342	0.9	4
43	CRNTC+: A smartphone-based sensor processing framework for prototyping personal healthcare applications 2013 ,		4
42	A generic sensor fabric for multi-modal swallowing sensing in regular upper-body shirts 2016 ,		4
41	Mining hierarchical relations in building management variables. <i>Pervasive and Mobile Computing</i> , 2016 , 26, 91-101	3.5	4
40	Towards LuxTrace: Using Solar Cells to Measure Distance Indoors. <i>Lecture Notes in Computer Science</i> , 2005 , 40-51	0.9	4
39	Using smart eyeglasses as a wearable game controller 2015 ,		3
38	An intervention study on automated lighting control to save energy in open space offices 2015 ,		3
37	Collaborative real-time speaker identification for wearable systems 2010 ,		3
36	Sparse Bayesian hierarchical mixture of experts 2011 ,		3
35	Activity Routine Discovery in Stroke Rehabilitation Patients without Data Annotation 2014 ,		3
34	Benefits of Dynamically Reconfigurable Activity Recognition in Distributed Sensing Environments. <i>Atlantis Ambient and Pervasive Intelligence</i> , 2011 , 265-290		3
33	Evaluation of 3D-printed conductive lines and EMG electrodes on smart eyeglasses frames 2018 ,		3
32	Physical Activity Comparison Between Body Sides in Hemiparetic Patients Using Wearable Motion Sensors in Free-Living and Therapy: A Case Series. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018 , 6, 136	5.8	3
31	Synthesising motion sensor data from biomechanical simulations to investigate motion sensor placement and orientation variations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 6391-6394	0.9	2
30	Accuracy-coverage tradeoff of nocturnal vital sign estimation in smart beds 2014 ,		2
29	Using RFID tags as reference for phone location and orientation in daily life 2013 ,		2
28	Personalized physical activity monitoring on the move 2013 ,		2

27	Modelling of distributed activity recognition in the home environment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 1781-4</i>	0.9	2
26	Psychophysiological Body Activation Characteristics in Daily Routines 2009,		2
25	Mobile Health Usage, Preferences, Barriers, and eHealth Literacy in Rheumatology: Patient Survey Study (Preprint)		2
24	Introduction to Smart Textiles. <i>Human-computer Interaction Series, 2017, 1-15</i>	0.6	2
23	Data mining-based localisation of spatial low-resolution sensors in commercial buildings 2016,		2
22	Printing Wearable Devices in 2D and 3D: An Overview on Mechanical and Electronic Digital Co-design. <i>IEEE Pervasive Computing, 2019, 18, 38-50</i>	1.3	2
21	Regression-based, mistake-driven movement skill estimation in Nordic Walking using wearable inertial sensors 2018,		2
20	Monitoring stage fright outside the laboratory: an example in a professional musician using wearable sensors. <i>Medical Problems of Performing Artists, 2012, 27, 21-30</i>	0.6	2
19	Smart Eyeglasses, e-Textiles, and the Future of Wearable Computing. <i>Advances in Science and Technology, 2016, 100, 141-150</i>	0.1	1
18	Transfer Learning in Body Sensor Networks Using Ensembles of Randomised Trees 2014,		1
17	Personalised phone placement recognition in daily life using RFID tagging 2014,		1
16	Removing respiratory artefacts from transthoracic bioimpedance spectroscopy measurements. <i>Journal of Physics: Conference Series, 2013, 434, 012018</i>	0.3	1
15	Workshop on smart garments 2014,		1
14	MyConverse 2013,		1
13	Exploring concept drift using interactive simulations 2013,		1
12	Comment on SNon-invasive monitoring of chewing and swallowing for objective quantification of ingestive behaviorS <i>Physiological Measurement, 2009, 30, L1-4; author reply L5-7</i>	2.9	1
11	Activity Patterns in Stroke Patients - Is There a Trend in Behaviour During Rehabilitation?. <i>Lecture Notes in Computer Science, 2015, 146-159</i>	0.9	1
10	DynDSE: Automated Multi-Objective Design Space Exploration for Context-Adaptive Wearable IoT Edge Devices. <i>Sensors, 2020, 20,</i>	3.8	1

- 9 Makers of Pervasive Systems and Crafts. *IEEE Pervasive Computing*, **2019**, 18, 61-70 1.3 1
- 8 Toward smartphone assisted personal rehabilitation training. *Xrds*, **2013**, 20, 33-37 0.5
- 7 AIM in Unsupervised Data Mining **2021**, 1-15
- 6 Inferring Model Structures from Inertial Sensor Data in Distributed Activity Recognition. *Lecture Notes in Computer Science*, **2013**, 62-77 0.9
- 5 Fabricating Pervasive Computing Systems. *IEEE Pervasive Computing*, **2019**, 18, 18-19 1.3
- 4 AIM in Wearable and Implantable Computing **2021**, 1-16
- 3 AIM in Eating Disorders **2022**, 1643-1661
- 2 AIM in Unsupervised Data Mining **2022**, 303-317
- 1 AIM in Wearable and Implantable Computing **2022**, 1187-1201