

# Oliver Amft

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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 | AIM in Eating Disorders <b>2022</b> , 1643-1661   |     |           |
| 169 | AIM in Unsupervised Data Mining <b>2022</b> , 303-317   |     |           |
| 168 | AIM in Wearable and Implantable Computing <b>2022</b> , 1187-1201   |     |           |
| 167 | AIM in Unsupervised Data Mining <b>2021</b> , 1-15  |     |           |
| 166 | AIM in Wearable and Implantable Computing <b>2021</b> , 1-16  |     |           |
| 165 | Wearable motion sensors and digital biomarkers in stroke rehabilitation. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 229-232   | 0.5 | 4         |
| 164 | Mobile Health Usage, Preferences, Barriers, and eHealth Literacy in Rheumatology: Patient Survey Study. <i>JMIR MHealth and UHealth</i> , <b>2020</b> , 8, e19661   | 5.5 | 38        |
| 163 | Retrieval and Timing Performance of Chewing-Based Eating Event Detection in Wearable Sensors. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 8         |
| 162 | Personalized Pervasive Health. <i>IEEE Pervasive Computing</i> , <b>2020</b> , 19, 11-13  | 1.3 | 5         |
| 161 | Estimating wearable motion sensor performance from personal biomechanical models and sensor data synthesis. <i>Scientific Reports</i> , <b>2020</b> , 10, 11450   | 4.9 | 11        |
| 160 | Privacy Risk Awareness in Wearables and the Internet of Things. <i>IEEE Pervasive Computing</i> , <b>2020</b> , 19, 60-66   | 1.3 | 9         |
| 159 | DynDSE: Automated Multi-Objective Design Space Exploration for Context-Adaptive Wearable IoT Edge Devices. <i>Sensors</i> , <b>2020</b> , 20,   | 3.8 | 1         |
| 158 | Wearables to Fight COVID-19: From Symptom Tracking to Contact Tracing. <i>IEEE Pervasive Computing</i> , <b>2020</b> , 19, 53-60  | 1.3 | 8         |
| 157 | Wearables and the Brain. <i>IEEE Pervasive Computing</i> , <b>2019</b> , 18, 94-100   | 1.3 | 8         |
| 156 | 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> , <b>2019</b> , 2019, 6301-6304 | 0.9 | 2         |
| 155 | Makers of Pervasive Systems and Crafts. <i>IEEE Pervasive Computing</i> , <b>2019</b> , 18, 61-70   | 1.3 | 1         |
| 154 | Fabricating Pervasive Computing Systems. <i>IEEE Pervasive Computing</i> , <b>2019</b> , 18, 18-19  | 1.3 |           |

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| 153 | Printing Wearable Devices in 2D and 3D: An Overview on Mechanical and Electronic Digital Co-design. <i>IEEE Pervasive Computing</i> , <b>2019</b> , 18, 38-50  | 1.3 | 2   |
| 152 | How Wearable Computing Is Shaping Digital Health. <i>IEEE Pervasive Computing</i> , <b>2018</b> , 17, 92-98  | 1.3 | 25  |
| 151 | Monitoring Chewing and Eating in Free-Living Using Smart Eyeglasses. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 23-32  | 7.2 | 59  |
| 150 | Longitudinal Walking Analysis in Hemiparetic Patients Using Wearable Motion Sensors: Is There Convergence Between Body Sides?. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 57  | 5.8 | 7   |
| 149 | Free-living eating event spotting using EMG-monitoring eyeglasses <b>2018</b> ,  |     | 13  |
| 148 | Automatic Dietary Monitoring Using Wearable Accessories <b>2018</b> , 369-412  |     | 8   |
| 147 | Evaluation of 3D-printed conductive lines and EMG electrodes on smart eyeglasses frames <b>2018</b> ,  |     | 3   |
| 146 | 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> , <b>2018</b> , 2018, 2017-2018 | 0.9 | 6   |
| 145 | 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> , <b>2018</b> , 6, 136   | 5.8 | 3   |
| 144 | Sparse natural gesture spotting in free living to monitor drinking with wrist-worn inertial sensors <b>2018</b> ,  |     | 13  |
| 143 | Regression-based, mistake-driven movement skill estimation in Nordic Walking using wearable inertial sensors <b>2018</b> ,   |     | 2   |
| 142 | Detecting Disordered Breathing and Limb Movement Using In-Bed Force Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 930-938  | 7.2 | 19  |
| 141 | Personalizing 3D-Printed Smart Eyeglasses to Augment Daily Life. <i>Computer</i> , <b>2017</b> , 50, 26-35   | 1.6 | 15  |
| 140 | Advanced internet of things for personalised healthcare systems: A survey. <i>Pervasive and Mobile Computing</i> , <b>2017</b> , 41, 132-149   | 3.5 | 209 |
| 139 | Physical activity patterns and clusters in 1001 patients with COPD. <i>Chronic Respiratory Disease</i> , <b>2017</b> , 14, 256-269   | 3   | 36  |
| 138 | Relation between estimated cardiorespiratory fitness and running performance in free-living: An analysis of HRV4Training data <b>2017</b> ,  |     | 4   |
| 137 | What Will We Wear After Smartphones?. <i>IEEE Pervasive Computing</i> , <b>2017</b> , 16, 80-85  | 1.3 | 14  |
| 136 | Computer Screen Use Detection Using Smart Eyeglasses. <i>Frontiers in ICT</i> , <b>2017</b> , 4,   | 3.6 | 7   |

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|-----|--|------|----|
| 135 | Introduction to Smart Textiles. <i>Human-computer Interaction Series</i> , <b>2017</b> , 1-15  | 0.6  | 2  |
| 134 | Textile Building Blocks: Toward Simple, Modularized, and Standardized Smart Textile. <i>Human-computer Interaction Series</i> , <b>2017</b> , 303-331  | 0.6  | 11 |
| 133 | Regular-look eyeglasses can monitor chewing <b>2016</b> ,  |      | 12 |
| 132 | Diet eyeglasses: Recognising food chewing using EMG and smart eyeglasses <b>2016</b> ,   |      | 31 |
| 131 | Smart Eyeglasses, e-Textiles, and the Future of Wearable Computing. <i>Advances in Science and Technology</i> , <b>2016</b> , 100, 141-150   | 0.1  | 1  |
| 130 | Bite glasses <b>2016</b> ,   |      | 15 |
| 129 | Estimating Oxygen Uptake During Nonsteady-State Activities and Transitions Using Wearable Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 469-75   | 7.2  | 11 |
| 128 | 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> , <b>2016</b> , 4, e3 | 3.6  | 21 |
| 127 | Data mining-based localisation of spatial low-resolution sensors in commercial buildings <b>2016</b> ,   |      | 2  |
| 126 | A generic sensor fabric for multi-modal swallowing sensing in regular upper-body shirts <b>2016</b> ,  |      | 4  |
| 125 | Cardiorespiratory fitness estimation in free-living using wearable sensors. <i>Artificial Intelligence in Medicine</i> , <b>2016</b> , 68, 37-46   | 7.4  | 18 |
| 124 | Cardiorespiratory fitness estimation using wearable sensors: Laboratory and free-living analysis of context-specific submaximal heart rates. <i>Journal of Applied Physiology</i> , <b>2016</b> , 120, 1082-96                                     | 3.7  | 12 |
| 123 | Mining hierarchical relations in building management variables. <i>Pervasive and Mobile Computing</i> , <b>2016</b> , 26, 91-101   | 3.5  | 4  |
| 122 | Transfer Learning in Body Sensor Networks Using Ensembles of Randomized Trees. <i>IEEE Internet of Things Journal</i> , <b>2015</b> , 2, 33-40   | 10.7 | 9  |
| 121 | Personalized cardiorespiratory fitness and energy expenditure estimation using hierarchical Bayesian models. <i>Journal of Biomedical Informatics</i> , <b>2015</b> , 56, 195-204  | 10.2 | 7  |
| 120 | Personalization of Energy Expenditure Estimation in Free Living Using Topic Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 1577-86   | 7.2  | 5  |
| 119 | Making Regular Eyeglasses Smart. <i>IEEE Pervasive Computing</i> , <b>2015</b> , 14, 32-43   | 1.3  | 46 |
| 118 | Estimating energy expenditure using body-worn accelerometers: a comparison of methods, sensors number and positioning. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2015</b> , 19, 219-26   | 7.2  | 73 |

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|-----|---|-----|----|
| 117 | 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> , <b>2015</b> , 6, 207-221 | 3.7 | 8  |
| 116 | WISEglass <b>2015</b> ,   |     | 4  |
| 115 | Estimating physical ability of stroke patients without specific tests <b>2015</b> ,   |     | 6  |
| 114 | SimpleSkin <b>2015</b> ,  |     | 13 |
| 113 | Daily life activity routine discovery in hemiparetic rehabilitation patients using topic models. <i>Methods of Information in Medicine</i> , <b>2015</b> , 54, 248-55   | 1.5 | 12 |
| 112 | Using smart eyeglasses as a wearable game controller <b>2015</b> ,  |     | 3  |
| 111 | Joint segmentation and activity discovery using semantic and temporal priors <b>2015</b> ,  |     | 4  |
| 110 | An intervention study on automated lighting control to save energy in open space offices <b>2015</b> ,  |     | 3  |
| 109 | Smart table surface: A novel approach to pervasive dining monitoring <b>2015</b> ,  |     | 31 |
| 108 | . <i>IEEE Pervasive Computing</i> , <b>2015</b> , 14, 46-56   | 1.3 | 13 |
| 107 | Mining relations and physical grouping of building-embedded sensors and actuators <b>2015</b> ,   |     | 5  |
| 106 | Design Challenges of Real Wearable Computers <b>2015</b> , 602-637  |     | 4  |
| 105 | WISEglass: Smart eyeglasses recognising context <b>2015</b> ,   |     | 5  |
| 104 | Activity Patterns in Stroke Patients - Is There a Trend in Behaviour During Rehabilitation?. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 146-159   | 0.9 | 1  |
| 103 | Personalizing energy expenditure estimation using physiological signals normalization during activities of daily living. <i>Physiological Measurement</i> , <b>2014</b> , 35, 1797-811                          | 2.9 | 10 |
| 102 | Transfer Learning in Body Sensor Networks Using Ensembles of Randomised Trees <b>2014</b> ,   |     | 1  |
| 101 | Novel stochastic model for presence detection using ultrasound ranging sensors <b>2014</b> ,  |     | 6  |
| 100 | Personalised phone placement recognition in daily life using RFID tagging <b>2014</b> ,   |     | 1  |

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| 99 | <b>2014,</b>   |     | 9  |
| 98 | Discovery of activity composites using topic models: An analysis of unsupervised methods. <i>Pervasive and Mobile Computing</i> , <b>2014</b> , 15, 215-227  | 3.5 | 24 |
| 97 | Hands-free gesture control with a capacitive textile neckband <b>2014,</b>   |     | 12 |
| 96 | How much light do you get? <b>2014,</b>  |     | 7  |
| 95 | Accuracy-coverage tradeoff of nocturnal vital sign estimation in smart beds <b>2014,</b>   |     | 2  |
| 94 | Workshop on smart garments <b>2014,</b>  |     | 1  |
| 93 | Hierarchical motion artefact compensation in smart garments <b>2014,</b>   |     | 4  |
| 92 | Activity Routine Discovery in Stroke Rehabilitation Patients without Data Annotation <b>2014,</b>  |     | 3  |
| 91 | Smart Textiles: From Niche to Mainstream. <i>IEEE Pervasive Computing</i> , <b>2013</b> , 12, 81-84  | 1.3 | 26 |
| 90 | Removing respiratory artefacts from transthoracic bioimpedance spectroscopy measurements. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 434, 012018   | 0.3 | 1  |
| 89 | 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> , <b>2013</b> , 45, 397-412 | 1.5 | 72 |
| 88 | Modeling arousal phases in daily living using wearable sensors. <i>IEEE Transactions on Affective Computing</i> , <b>2013</b> , 4, 93-105  | 5.7 | 21 |
| 87 | Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 3935-3947  | 4   | 46 |
| 86 | Unsupervised activity clustering to estimate energy expenditure with a single body sensor <b>2013,</b>   |     | 12 |
| 85 | Recognizing Energy-related Activities Using Sensors Commonly Installed in Office Buildings. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 669-677   | 1.6 | 32 |
| 84 | Using a Thermopile Matrix Sensor to Recognize Energy-related Activities in Offices. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 678-685   | 1.6 | 22 |
| 83 | AmbientSense: A real-time ambient sound recognition system for smartphones <b>2013,</b>  |     | 28 |
| 82 | Service-Oriented Architecture for Smart Environments (Short Paper) <b>2013,</b>  |     | 9  |

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| 81 | Personalizing Energy Expenditure Estimation Using a Cardiorespiratory Fitness Predicate <b>2013,</b>   |     | 7  |
| 80 | Combining wearable accelerometer and physiological data for activity and energy expenditure estimation <b>2013,</b>  |     | 13 |
| 79 | Using RFID tags as reference for phone location and orientation in daily life <b>2013,</b>   |     | 2  |
| 78 | An opportunistic activity-sensing approach to save energy in office buildings <b>2013,</b>   |     | 31 |
| 77 | COPDTrainer <b>2013,</b>   |     | 34 |
| 76 | Activity monitoring in daily life as an outcome measure for surgical pain relief intervention using smartphones <b>2013,</b>   |     | 4  |
| 75 | MyConverse <b>2013,</b>  |     | 1  |
| 74 | Personalized physical activity monitoring on the move <b>2013,</b>   |     | 2  |
| 73 | Toward smartphone assisted personal rehabilitation training. <i>Xrds</i> , <b>2013</b> , 20, 33-37   | 0.5 |    |
| 72 | Usability of digital media in patients with COPD: a pilot study. <i>International Journal of Technology Assessment in Health Care</i> , <b>2013</b> , 29, 162-5  | 1.8 | 7  |
| 71 | RoomSense <b>2013,</b>   |     | 28 |
| 70 | Improving energy efficiency through activity-aware control of office appliances using proximity sensing - A real-life study <b>2013,</b>   |     | 10 |
| 69 | 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> , <b>2013</b> , 6752-5 | 0.9 | 4  |
| 68 | Exploring concept drift using interactive simulations <b>2013,</b>   |     | 1  |
| 67 | Monitoring Stress Arousal in the Wild. <i>IEEE Pervasive Computing</i> , <b>2013</b> , 12, 28-37   | 1.3 | 21 |
| 66 | Evaluating Daily Life Activity Using Smartphones as Novel Outcome Measure for Surgical Pain Therapy <b>2013,</b>   |     | 6  |
| 65 | CRNTC+: A smartphone-based sensor processing framework for prototyping personal healthcare applications <b>2013,</b>   |     | 4  |
| 64 | Inferring Model Structures from Inertial Sensor Data in Distributed Activity Recognition. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 62-77   | 0.9 |    |

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| 63 | A Hierarchical Bayesian Approach to Modeling Heterogeneity in Speech Quality Assessment. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2012</b> , 20, 136-146   |      | 5   |
| 62 | A Distributed PIR-based Approach for Estimating People Count in Office Environments <b>2012</b> ,   |      | 48  |
| 61 | A green autonomous self-sustaining sensor node for counting people in office environments <b>2012</b> ,   |      | 8   |
| 60 | Recognizing Daily Life Context Using Web-Collected Audio Data <b>2012</b> ,   |      | 13  |
| 59 | Collaborative personal speaker identification: A generalized approach. <i>Pervasive and Mobile Computing</i> , <b>2012</b> , 8, 415-428   | 3.5  | 4   |
| 58 | A benchmark dataset to evaluate sensor displacement in activity recognition <b>2012</b> ,   |      | 42  |
| 57 | Energy expenditure estimation using wearable sensors <b>2012</b> ,  |      | 24  |
| 56 | Does loose fitting matter? Predicting sensor performance in smart garments. <b>2012</b> ,   |      | 8   |
| 55 | Monitoring stage fright outside the laboratory: an example in a professional musician using wearable sensors. <i>Medical Problems of Performing Artists</i> , <b>2012</b> , 27, 21-30   | 0.6  | 2   |
| 54 | Reducing motion artifacts for robust QRS detection in capacitive sensor arrays <b>2011</b> ,  |      | 4   |
| 53 | Best practice for motor imagery: a systematic literature review on motor imagery training elements in five different disciplines. <i>BMC Medicine</i> , <b>2011</b> , 9, 75   | 11.4 | 227 |
| 52 | An Interdisciplinary Approach to Designing Adaptive Lighting Environments <b>2011</b> ,   |      | 5   |
| 51 | Self-Taught Learning for Activity Spotting in On-body Motion Sensor Data <b>2011</b> ,  |      | 4   |
| 50 | Smart Energy Systems. <i>IEEE Pervasive Computing</i> , <b>2011</b> , 10, 63-65   | 1.3  | 10  |
| 49 | Sparse Bayesian hierarchical mixture of experts <b>2011</b> ,   |      | 3   |
| 48 | 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</i> , <b>2011</b> , 2011, 1781-4 | 0.9  | 2   |
| 47 | A stepwise validation of a wearable system for estimating energy expenditure in field-based research. <i>Physiological Measurement</i> , <b>2011</b> , 32, 1983-2001  | 2.9  | 21  |
| 46 | Benefits of Dynamically Reconfigurable Activity Recognition in Distributed Sensing Environments. <i>Atlantis Ambient and Pervasive Intelligence</i> , <b>2011</b> , 265-290   |      | 3   |



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|----|--|-----|-----|
| 45 | Ambient, On-Body, and Implantable Monitoring Technologies to Assess Dietary Behavior <b>2011</b> , 3507-3526   |     | 9   |
| 44 | Active Capacitive Sensing: Exploring a New Wearable Sensing Modality for Activity Recognition. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 319-336                                | 0.9 | 73  |
| 43 | A wearable earpad sensor for chewing monitoring <b>2010</b> ,  |     | 54  |
| 42 | Collaborative real-time speaker identification for wearable systems <b>2010</b> ,  |     | 3   |
| 41 | A bayesian hierarchical mixture of experts approach to estimate speech quality <b>2010</b> ,   |     | 5   |
| 40 | Adaptive Activity Spotting Based on Event Rates <b>2010</b> ,  |     | 7   |
| 39 | ETHOS: Miniature orientation sensor for wearable human motion analysis <b>2010</b> ,   |     | 37  |
| 38 | Towards wearable sensing-based assessment of fluid intake <b>2010</b> ,  |     | 34  |
| 37 | Arousal pattern analysis of an Olympic champion in ski jumping. <i>Sports Technology</i> , <b>2010</b> , 3, 192-203  |     | 7   |
| 36 | Estimating posture-recognition performance in sensing garments using geometric wrinkle modeling. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 1436-45 |     | 17  |
| 35 | On-Body Sensing: From Gesture-Based Input to Activity-Driven Interaction. <i>Computer</i> , <b>2010</b> , 43, 92-96  | 1.6 | 13  |
| 34 | Rapid prototyping of smart garments for activity-aware applications. <i>Journal of Ambient Intelligence and Smart Environments</i> , <b>2009</b> , 1, 87-101                                   | 2.2 | 21  |
| 33 | From Backpacks to Smartphones: Past, Present, and Future of Wearable Computers. <i>IEEE Pervasive Computing</i> , <b>2009</b> , 8, 8-13  | 1.3 | 55  |
| 32 | Performance Analysis of an HMM-Based Gesture Recognition Using a Wristwatch Device <b>2009</b> ,   |     | 14  |
| 31 | Wearable therapist <b>2009</b> ,   |     | 10  |
| 30 | Bite weight prediction from acoustic recognition of chewing. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1663-72  | 5   | 76  |
| 29 | BodyANT: Miniature wireless sensors for naturalistic monitoring of daily activity <b>2009</b> ,  |     | 11  |
| 28 | On-Body Sensing Solutions for Automatic Dietary Monitoring. <i>IEEE Pervasive Computing</i> , <b>2009</b> , 8, 62-70   | 1.3 | 114 |

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|----|---|-----|-----|
| 27 | Psychophysiological Body Activation Characteristics in Daily Routines <b>2009</b> ,   |     | 2   |
| 26 | Comment on Non-invasive monitoring of chewing and swallowing for objective quantification of ingestive behaviorS <i>Physiological Measurement</i> , <b>2009</b> , 30, L1-4; author reply L5-7 | 2.9 | 1   |
| 25 | Modeling and simulation of sensor orientation errors in garments <b>2009</b> ,  |     | 9   |
| 24 | Gesture-Controlled User Input to Complete Questionnaires on Wrist-Worn Watches. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 131-140  | 0.9 | 6   |
| 23 | Automatic Event-Based Synchronization of Multimodal Data Streams from Wearable and Ambient Sensors. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 135-148                          | 0.9 | 15  |
| 22 | Recognition of dietary activity events using on-body sensors. <i>Artificial Intelligence in Medicine</i> , <b>2008</b> , 42, 121-36   | 7.4 | 149 |
| 21 | . <i>IEEE Pervasive Computing</i> , <b>2008</b> , 7, 22-31  | 1.3 | 78  |
| 20 | Influence of a loose-fitting sensing garment on posture recognition in rehabilitation <b>2008</b> ,   |     | 10  |
| 19 | Gesture spotting with body-worn inertial sensors to detect user activities. <i>Pattern Recognition</i> , <b>2008</b> , 41, 2010-2024  | 7.7 | 272 |
| 18 | SMASH: A Distributed Sensing and Processing Garment for the Classification of Upper Body Postures <b>2008</b> ,   |     | 26  |
| 17 | Analysis of Heart Stress Response for a Public Talk Assistant System. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 326-342  | 0.9 | 4   |
| 16 | Distributed Activity Recognition with Fuzzy-Enabled Wireless Sensor Networks <b>2008</b> , 296-313  |     | 16  |
| 15 | Waving Real Hand Gestures Recorded by Wearable Motion Sensors to a Virtual Car and Driver in a Mixed-Reality Parking Game <b>2007</b> ,   |     | 24  |
| 14 | Automatic Identification of Temporal Sequences in Chewing Sounds <b>2007</b> ,  |     | 4   |
| 13 | LuxTrace: indoor positioning using building illumination. <i>Personal and Ubiquitous Computing</i> , <b>2007</b> , 11, 417-428  | 2.1 | 37  |
| 12 | Recognizing Upper Body Postures using Textile Strain Sensors <b>2007</b> ,  |     | 104 |
| 11 | Recognition of User Activity Sequences Using Distributed Event Detection <b>2007</b> , 126-141  |     | 14  |
| 10 | Smart medical textiles for monitoring patients with heart conditions <b>2007</b> , 275-301  |     | 16  |

|   |  |     |     |
|---|--|-----|-----|
| 9 | Probabilistic parsing of dietary activity events <b>2007</b> , 242-247   |     | 22  |
| 8 | Methods for Detection and Classification of Normal Swallowing from Muscle Activation and Sound <b>2006</b> ,                     |     | 41  |
| 7 | Distributed Modular Toolbox for Multi-modal Context Recognition. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 99-113 | 0.9 | 14  |
| 6 | Analysis of Chewing Sounds for Dietary Monitoring. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 56-72                | 0.9 | 107 |
| 5 | Towards LuxTrace: Using Solar Cells to Measure Distance Indoors. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 40-51  | 0.9 | 4   |
| 4 | Detection of eating and drinking arm gestures using inertial body-worn sensors   |     | 89  |
| 3 | Sensing muscle activities with body-worn sensors   |     | 39  |
| 2 | Design of the QBIC wearable computing platform   |     | 24  |
| 1 | Mobile Health Usage, Preferences, Barriers, and eHealth Literacy in Rheumatology: Patient Survey Study (Preprint)                |     | 2   |