

# Sebastian Fudickar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4097096/publications.pdf>

Version: 2024-02-01

42  
papers

356  
citations

933264

10  
h-index

996849

15  
g-index

42  
all docs

42  
docs citations

42  
times ranked

323  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Towards an Automated Unsupervised Mobility Assessment for Older People Based on Inertial TUG Measurements. <i>Sensors</i> , 2018, 18, 3310.  | 2.1 | 30        |
| 2  | EEG Recording and Online Signal Processing on Android: A Multiapp Framework for Brain-Computer Interfaces on Smartphone. <i>BioMed Research International</i> , 2017, 2017, 1-12.  | 0.9 | 27        |
| 3  | Measurement of the Chair Rise Performance of Older People Based on Force Plates and IMUs. <i>Sensors</i> , 2019, 19, 1370.   | 2.1 | 24        |
| 4  | Counteracting the Slowdown of Reaction Times in a Vigilance Experiment With 40-Hz Transcranial Alternating Current Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 2053-2061. | 2.7 | 20        |
| 5  | Mask R-CNN Based C. Elegans Detection with a DIY Microscope. <i>Biosensors</i> , 2021, 11, 257.  | 2.3 | 20        |
| 6  | Measurement System for Unsupervised Standardized Assessment of Timed "Up & Go" and Five Times Sit to Stand Test in the Community" A Validity Study. <i>Sensors</i> , 2020, 20, 2824.   | 2.1 | 17        |
| 7  | Mass Surveillance of C. elegans" Smartphone-Based DIY Microscope and Machine-Learning-Based Approach for Worm Detection. <i>Sensors</i> , 2019, 19, 1468.  | 2.1 | 16        |
| 8  | Validation of the ambient TUG chair with light barriers and force sensors in a clinical trial. <i>Assistive Technology</i> , 2020, 32, 1-8.  | 1.2 | 14        |
| 9  | Towards a minimized unsupervised technical assessment of physical performance in domestic environments. , 2017, , .  |     | 13        |
| 10 | Characterizing the Influence of Muscle Activity in fNIRS Brain Activation Measurements. <i>IFAC-PapersOnLine</i> , 2016, 49, 84-88.  | 0.5 | 12        |
| 11 | Designing a New Puzzle App to Target Dyslexia Screening in Pre-Readers. , 2019, , .  |     | 12        |
| 12 | The AAL/Care Laboratory " a healthcare prevention system for caregivers. <i>Nanomaterials and Energy</i> , 2020, 9, 27-38.   | 0.1 | 12        |
| 13 | KopAL " A Mobile Orientation System for Dementia Patients. <i>Communications in Computer and Information Science</i> , 2009, , 109-118.  | 0.4 | 11        |
| 14 | Fall-detection simulator for accelerometers with in-hardware preprocessing. , 2012, , .  |     | 10        |
| 15 | Scanning Laser Rangefinders for the Unobtrusive Monitoring of Gait Parameters in Unsupervised Settings. <i>Sensors</i> , 2018, 18, 3424.   | 2.1 | 10        |
| 16 | Stair Climb Power Measurements via Inertial Measurement Units - Towards an Unsupervised Assessment of Strength in Domestic Environments. , 2018, , .   |     | 10        |
| 17 | Cardiopulmonary resuscitation quality parameters from motion capture data using Differential Evolution fitting of sinusoids. <i>Applied Soft Computing Journal</i> , 2019, 79, 300-309.  | 4.1 | 9         |
| 18 | Technology Supported Geriatric Assessment. <i>Advanced Technologies and Societal Change</i> , 2017, , 85-100.  | 0.8 | 8         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Transportation mode classification from smartphone sensors via a long-short-term-memory network. , 2019, , .   |     | 8         |
| 20 | HRDepthNet: Depth Image-Based Marker-Less Tracking of Body Joints. Sensors, 2021, 21, 1356.  | 2.1 | 7         |
| 21 | Minimizing comprehensive geriatric assessment to identify deterioration of physical performance in a healthy community-dwelling older cohort: longitudinal data of the AEQUIPA Versa study. Aging Clinical and Experimental Research, 2021, 33, 563-572. | 1.4 | 6         |
| 22 | OWAS inter-rater reliability. Applied Ergonomics, 2021, 93, 103357.  | 1.7 | 6         |
| 23 | A Wearable Vibrotactile Interface for Unfavorable Posture Awareness Warning. , 2018, , .   |     | 6         |
| 24 | MANETSip - A Dependable SIP Overlay Network for MANET Including Presentity Service. , 2009, , .  |     | 5         |
| 25 | On the comparability of indoor localization systems' accuracy. , 2013, , .   |     | 5         |
| 26 | Measurement System for Unsupervised Standardized Assessments of Timed Up and Go Test and 5 Times Chair Rise Test in Community Settingsâ€”A Usability Study. Sensors, 2022, 22, 731.  | 2.1 | 5         |
| 27 | An energy efficient mobile device for assisted living applications. , 2012, , .  |     | 4         |
| 28 | Most accurate algorithms for RSS-based Wi-Fi indoor localisation. , 2014, , .  |     | 4         |
| 29 | Validation of a Laser Ranged Scanner-Based Detection of Spatio-Temporal Gait Parameters Using the aTUG Chair. Sensors, 2021, 21, 1343.   | 2.1 | 4         |
| 30 | Feature based random forest nurse care activity recognition using accelerometer data. , 2020, , .  |     | 4         |
| 31 | Understanding Jump Landing as an Oscillating System: A Model-based Approach of Balance and Strength Analyses. , 2017, , .  |     | 3         |
| 32 | An evolutionary approach to continuously estimate CPR quality parameters from a wrist-worn inertial sensor. Health and Technology, 2022, 12, 161-173.  | 2.1 | 3         |
| 33 | Validation of a motion capture suit for clinical gait analysis. , 2017, , .  |     | 2         |
| 34 | Determining Cardiopulmonary Resuscitation Parameters with Differential Evolution Optimization of Sinusoidal Curves. , 2018, , .  |     | 2         |
| 35 | Preliminary Viability Test of a 3-D-Consumer-Camera-Based System for Automatic Gait Feature Detection in People with and without Parkinsonâ€™s Disease. , 2020, , .  |     | 2         |
| 36 | Development of a Mobile Functional Near-Infrared Spectroscopy Prototype. Lecture Notes in Computer Science, 2018, , 146-161.   | 1.0 | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Development of a Mobile Functional Near-infrared Spectroscopy Prototype and its Initial Evaluation. , 2018, , .  |     | 1         |
| 38 | Cycling-monitoring system: sensing cycling performance via a pedal-integrated inertial measurement unit. Nanomaterials and Energy, 2020, 9, 21-26.     | 0.1 | 1         |
| 39 | Evaluating a Multi Depth Camera System to Consolidate Ergonomic Work in the Education of Caregivers. , 2021, , .                                       |     | 1         |
| 40 | Evaluation of Power-Based Stair Climb Performance via Inertial Measurement Units. Communications in Computer and Information Science, 2019, , 238-261. | 0.4 | 1         |
| 41 | Comparing suitability of sub 1 GHz and WiFi transceivers for RSS-based indoor localisation. , 2014, , .  |     | 0         |
| 42 | A Model-Based Approach for Jump Analyses Regarding Strength and Balance. Communications in Computer and Information Science, 2018, , 354-375.          | 0.4 | 0         |