

Gabriele Bleser

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

47
papers

927
citations

15
h-index

30
g-index

50
ext. papers

1,223
ext. citations

2.4
avg, IF

4.63
L-index

#	Paper	IF	Citations
47	An adaptive learning and control framework based on dynamic movement primitives with application to human-robot handovers. <i>Robotics and Autonomous Systems</i> , 2022 , 148, 103935	3.5	0
46	Towards a Better Understanding of Spinal Differences Between Healthy Subjects and Subjects with Back Pain Using Explainable Artificial Intelligence (XAI). <i>Advances in Intelligent Systems and Computing</i> , 2022 , 97-100	0.4	
45	Digitale Prävention im Bau-Handwerk 2022 , 315-356		
44	General method for automated feature extraction and selection and its application for gender classification and biomechanical knowledge discovery of sex differences in spinal posture during stance and gait. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 24, 299-307	2.1	10
43	Machine learning techniques demonstrating individual movement patterns of the vertebral column: the fingerprint of spinal motion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 1-11	2.1	1
42	Classification and Automated Interpretation of Spinal Posture Data Using a Pathology-Independent Classifier and Explainable Artificial Intelligence (XAI). <i>Sensors</i> , 2021 , 21,	3.8	8
41	Automated detection and explainability of pathological gait patterns using a one-class support vector machine trained on inertial measurement unit based gait data. <i>Clinical Biomechanics</i> , 2021 , 89, 105452	2.2	1
40	Feature extraction and gait classification in hip replacement patients on the basis of kinematic waveform data. <i>Biomedical Human Kinetics</i> , 2021 , 13, 177-186	0.8	1
39	Force Shadows: An Online Method to Estimate and Distribute Vertical Ground Reaction Forces from Kinematic Data. <i>Sensors</i> , 2020 , 20,	3.8	1
38	An Approach to Magnetometer-free On-body Inertial Sensors Network Alignment. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15982-15989	0.7	1
37	Toward Gamified Pain Management Apps: Mobile Application Rating Scale-Based Quality Assessment of Pain-Mentor's First Prototype Through an Expert Study. <i>JMIR Formative Research</i> , 2020 , 4, e13170	2.5	5
36	On Expressive Features for Gait Analysis using Lower Limb Inertial Sensor Data. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15990-15997	0.7	3
35	Depth camera based statistical shape fitting approach for the creation of an individualized lower body biomechanical model: validity and reliability. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 12-22	2.1	1
34	On optical data-guided optimal control simulations of human motion. <i>Multibody System Dynamics</i> , 2020 , 48, 105-126	2.8	2
33	Interpretability of Input Representations for Gait Classification in Patients after Total Hip Arthroplasty. <i>Sensors</i> , 2020 , 20,	3.8	19
32	Validity of inertial sensor based 3D joint kinematics of static and dynamic sport and physiotherapy specific movements. <i>PLoS ONE</i> , 2019 , 14, e0213064	3.7	39
31	Gamification of a Stress Management App: Results of a User Study. <i>Lecture Notes in Computer Science</i> , 2019 , 303-313	0.9	1

30	A Biofeedback App to Instruct Abdominal Breathing (Breathing-Mentor): Pilot Experiment. <i>JMIR MHealth and UHealth</i> , 2019 , 7, e13703	5.5	5
29	Towards More Interactive Stress-Related Self-monitoring Tools to Improve Quality of Life. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 121-130	0.4	4
28	Towards an Inertial Sensor-Based Wearable Feedback System for Patients after Total Hip Arthroplasty: Validity and Applicability for Gait Classification with Gait Kinematics-Based Features. <i>Sensors</i> , 2019 , 19,	3.8	20
27	Stress-Mentor: Linking Gamification and Behavior Change Theory in a Stress Management Application. <i>Communications in Computer and Information Science</i> , 2018 , 387-393	0.3	6
26	IMU-to-Segment Assignment and Orientation Alignment for the Lower Body Using Deep Learning. <i>Sensors</i> , 2018 , 18,	3.8	40
25	Validity, Test-Retest Reliability and Long-Term Stability of Magnetometer Free Inertial Sensor Based 3D Joint Kinematics. <i>Sensors</i> , 2018 , 18,	3.8	40
24	Towards Inertial Sensor Based Mobile Gait Analysis: Event-Detection and Spatio-Temporal Parameters. <i>Sensors</i> , 2018 , 19,	3.8	68
23	Human Motion Capturing and Activity Recognition Using Wearable Sensor Networks. <i>Biosystems and Biorobotics</i> , 2018 , 191-206	0.2	1
22	Development of an Inertial Motion Capture System for Clinical Application. <i>I-com</i> , 2017 , 16, 113-129	1	7
21	Real-time inertial lower body kinematics and ground contact estimation at anatomical foot points for agile human locomotion 2017 ,		13
20	Survey of Motion Tracking Methods Based on Inertial Sensors: A Focus on Upper Limb Human Motion. <i>Sensors</i> , 2017 , 17,	3.8	153
19	Gamification in Stress Management Apps: A Critical App Review. <i>JMIR Serious Games</i> , 2017 , 5, e13	3.4	38
18	Stress Management Apps With Regard to Emotion-Focused Coping and Behavior Change Techniques: A Content Analysis. <i>JMIR MHealth and UHealth</i> , 2017 , 5, e22	5.5	31
17	Effective Visualization of Long Term Health Data to Support Behavior Change. <i>Lecture Notes in Computer Science</i> , 2017 , 237-247	0.9	5
16	Occlusion-aware video registration for highly non-rigid objects 2016 ,		10
15	On Inertial Body Tracking in the Presence of Model Calibration Errors. <i>Sensors</i> , 2016 , 16,	3.8	56
14	On data-guided optimal control simulation of human motion. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 89-90	0.2	
13	Cognitive Robotics Systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 80, 3-5	2.9	1

12	Cognitive Learning, Monitoring and Assistance of Industrial Workflows Using Egocentric Sensor Networks. <i>PLoS ONE</i> , 2015 , 10, e0127769	3.7	23
11	Ambulatory inertial spinal tracking using constraints 2014 ,		4
10	Innovative system for real-time ergonomic feedback in industrial manufacturing. <i>Applied Ergonomics</i> , 2013 , 44, 566-74	4.2	180
9	A Low-Cost and Light-Weight Motion Tracking Suit 2013 ,		4
8	A personalized exercise trainer for the elderly. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2013 , 5, 547-562	2.2	25
7	A generic approach to inertial tracking of arbitrary kinematic chains 2013 ,		8
6	From Interactive to Adaptive Augmented Reality 2012 ,		3
5	Using egocentric vision to achieve robust inertial body tracking under magnetic disturbances 2011 ,		10
4	Advanced tracking through efficient image processing and visual inertial sensor fusion. <i>Computers and Graphics</i> , 2009 , 33, 59-72	1.8	58
3	Using optical flow as lightweight SLAM alternative 2009 ,		3
2	Real-time vision-based tracking and reconstruction. <i>Journal of Real-Time Image Processing</i> , 2007 , 2, 161-175	1.5	15
1	Toward Gamified Pain Management Apps: Mobile Application Rating Scale-Based Quality Assessment of Pain-Mentor's First Prototype Through an Expert Study (Preprint)		1