

Gabriele Bleser

List of Publications by Year in descending order

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45
papers

1,482
citations

516710

16
h-index

361022

35
g-index

50
all docs

50
docs citations

50
times ranked

1687
citing authors

#	ARTICLE	IF	CITATIONS
1	Survey of Motion Tracking Methods Based on Inertial Sensors: A Focus on Upper Limb Human Motion. Sensors, 2017, 17, 1257.	3.8	257
2	Innovative system for real-time ergonomic feedback in industrial manufacturing. Applied Ergonomics, 2013, 44, 566-574.	3.1	242
3	Towards Inertial Sensor Based Mobile Gait Analysis: Event-Detection and Spatio-Temporal Parameters. Sensors, 2019, 19, 38.	3.8	90
4	Validity of inertial sensor based 3D joint kinematics of static and dynamic sport and physiotherapy specific movements. PLoS ONE, 2019, 14, e0213064.	2.5	84
5	On Inertial Body Tracking in the Presence of Model Calibration Errors. Sensors, 2016, 16, 1132.	3.8	77
6	IMU-to-Segment Assignment and Orientation Alignment for the Lower Body Using Deep Learning. Sensors, 2018, 18, 302.	3.8	75
7	Advanced tracking through efficient image processing and visual inertial sensor fusion. Computers and Graphics, 2009, 33, 59-72.	2.5	70
8	Validity, Test-Retest Reliability and Long-Term Stability of Magnetometer Free Inertial Sensor Based 3D Joint Kinematics. Sensors, 2018, 18, 1980.	3.8	68
9	Gamification in Stress Management Apps: A Critical App Review. JMIR Serious Games, 2017, 5, e13.	3.1	65
10	Stress Management Apps With Regard to Emotion-Focused Coping and Behavior Change Techniques: A Content Analysis. JMIR MHealth and UHealth, 2017, 5, e22.	3.7	51
11	Interpretability of Input Representations for Gait Classification in Patients after Total Hip Arthroplasty. Sensors, 2020, 20, 4385.	3.8	43
12	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. Sensors, 2019, 19, 5006.	3.8	42
13	A personalized exercise trainer for the elderly. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 547-562.	1.4	33
14	Cognitive Learning, Monitoring and Assistance of Industrial Workflows Using Egocentric Sensor Networks. PLoS ONE, 2015, 10, e0127769.	2.5	31
15	Classification and Automated Interpretation of Spinal Posture Data Using a Pathology-Independent Classifier and Explainable Artificial Intelligence (XAI). Sensors, 2021, 21, 6323.	3.8	24
16	Using egocentric vision to achieve robust inertial body tracking under magnetic disturbances. , 2011, , .		22
17	Real-time inertial lower body kinematics and ground contact estimation at anatomical foot points for agile human locomotion. , 2017, , .		20
18	Real-time vision-based tracking and reconstruction. Journal of Real-Time Image Processing, 2007, 2, 161-175.	3.5	17

#	ARTICLE	IF	CITATIONS
19	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.	1.6	14
20	A generic approach to inertial tracking of arbitrary kinematic chains. , 2013, , .		13
21	Occlusion-aware video registration for highly non-rigid objects. , 2016, , .		12
22	Development of an Inertial Motion Capture System for Clinical Application. <i>I-com</i> , 2017, 16, 113-129.	1.3	11
23	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.	1.2	11
24	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.	5.1	11
25	A Biofeedback App to Instruct Abdominal Breathing (Breathing-Mentor): Pilot Experiment. <i>JMIR MHealth and UHealth</i> , 2019, 7, e13703.	3.7	10
26	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.	1.4	9
27	A Low-Cost and Light-Weight Motion Tracking Suit. , 2013, , .		7
28	Stress-Mentor: Linking Gamification and Behavior Change Theory in a Stress Management Application. <i>Communications in Computer and Information Science</i> , 2018, , 387-393.	0.5	7
29	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> , 2022, 25, 821-831.	1.6	6
30	Effective Visualization of Long Term Health Data to Support Behavior Change. <i>Lecture Notes in Computer Science</i> , 2017, , 237-247.	1.3	6
31	Ambulatory inertial spinal tracking using constraints. , 2014, , .		6
32	Towards Artefact Aware Human Motion Capture using Inertial Sensors Integrated into Loose Clothing. , 2022, , .		6
33	From Interactive to Adaptive Augmented Reality. , 2012, , .		5
34	Gamification of a Stress Management App: Results of a User Study. <i>Lecture Notes in Computer Science</i> , 2019, , 303-313.	1.3	5
35	On optical data-guided optimal control simulations of human motion. <i>Multibody System Dynamics</i> , 2020, 48, 105-126.	2.7	5
36	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.	0.6	5

#	ARTICLE	IF	CITATIONS
37	Using optical flow as lightweight SLAM alternative. , 2009, , .		4
38	On Expressive Features for Gait Analysis using Lower Limb Inertial Sensor Data. IFAC-PapersOnLine, 2020, 53, 15990-15997.	0.9	3
39	Human Motion Capturing and Activity Recognition Using Wearable Sensor Networks. Biosystems and Biorobotics, 2018, , 191-206.	0.3	2
40	An Approach to Magnetometer-free On-body Inertial Sensors Network Alignment. IFAC-PapersOnLine, 2020, 53, 15982-15989.	0.9	2
41	Cognitive Robotics Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 3-5.	3.4	1
42	Depth camera based statistical shape fitting approach for the creation of an individualized lower body biomechanical model: validity and reliability. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 12-22.	1.6	1
43	Force Shadows: An Online Method to Estimate and Distribute Vertical Ground Reaction Forces from Kinematic Data. Sensors, 2020, 20, 5709.	3.8	1
44	Using egocentric vision to achieve robust inertial body tracking under magnetic disturbances. , 2011, , .		1
45	On dataâ€­guided optimal control simulation of human motion. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 89-90.	0.2	0