

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	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
2	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
3	Towards Artefact Aware Human Motion Capture using Inertial Sensors Integrated into Loose Clothing. , 2022, , .		6
4	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
5	Classification and Automated Interpretation of Spinal Posture Data Using a Pathology-Independent Classifier and Explainable Artificial Intelligence (XAI). <i>Sensors</i> , 2021, 21, 6323.	3.8	24
6	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
7	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
8	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.	1.6	1
9	On optical data-guided optimal control simulations of human motion. <i>Multibody System Dynamics</i> , 2020, 48, 105-126.	2.7	5
10	Interpretability of Input Representations for Gait Classification in Patients after Total Hip Arthroplasty. <i>Sensors</i> , 2020, 20, 4385.	3.8	43
11	Force Shadows: An Online Method to Estimate and Distribute Vertical Ground Reaction Forces from Kinematic Data. <i>Sensors</i> , 2020, 20, 5709.	3.8	1
12	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
13	On Expressive Features for Gait Analysis using Lower Limb Inertial Sensor Data. <i>IFAC-PapersOnLine</i> , 2020, 53, 15990-15997.	0.9	3
14	An Approach to Magnetometer-free On-body Inertial Sensors Network Alignment. <i>IFAC-PapersOnLine</i> , 2020, 53, 15982-15989.	0.9	2
15	Gamification of a Stress Management App: Results of a User Study. <i>Lecture Notes in Computer Science</i> , 2019, , 303-313.	1.3	5
16	Validity of inertial sensor based 3D joint kinematics of static and dynamic sport and physiotherapy specific movements. <i>PLoS ONE</i> , 2019, 14, e0213064.	2.5	84
17	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, 5006.	3.8	42
18	Towards Inertial Sensor Based Mobile Gait Analysis: Event-Detection and Spatio-Temporal Parameters. <i>Sensors</i> , 2019, 19, 38.	3.8	90

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19	A Biofeedback App to Instruct Abdominal Breathing (Breathing-Mentor): Pilot Experiment. JMIR MHealth and UHealth, 2019, 7, e13703.	3.7	10
20	Human Motion Capturing and Activity Recognition Using Wearable Sensor Networks. Biosystems and Biorobotics, 2018, , 191-206.	0.3	2
21	Stress-Mentor: Linking Gamification and Behavior Change Theory in a Stress Management Application. Communications in Computer and Information Science, 2018, , 387-393.	0.5	7
22	IMU-to-Segment Assignment and Orientation Alignment for the Lower Body Using Deep Learning. Sensors, 2018, 18, 302.	3.8	75
23	Validity, Test-Retest Reliability and Long-Term Stability of Magnetometer Free Inertial Sensor Based 3D Joint Kinematics. Sensors, 2018, 18, 1980.	3.8	68
24	Development of an Inertial Motion Capture System for Clinical Application. I-com, 2017, 16, 113-129.	1.3	11
25	Real-time inertial lower body kinematics and ground contact estimation at anatomical foot points for agile human locomotion. , 2017, , .		20
26	Survey of Motion Tracking Methods Based on Inertial Sensors: A Focus on Upper Limb Human Motion. Sensors, 2017, 17, 1257.	3.8	257
27	Effective Visualization of Long Term Health Data to Support Behavior Change. Lecture Notes in Computer Science, 2017, , 237-247.	1.3	6
28	Gamification in Stress Management Apps: A Critical App Review. JMIR Serious Games, 2017, 5, e13.	3.1	65
29	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
30	On Inertial Body Tracking in the Presence of Model Calibration Errors. Sensors, 2016, 16, 1132.	3.8	77
31	On data-guided optimal control simulation of human motion. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 89-90.	0.2	0
32	Occlusion-aware video registration for highly non-rigid objects. , 2016, , .		12
33	Cognitive Robotics Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 3-5.	3.4	1
34	Cognitive Learning, Monitoring and Assistance of Industrial Workflows Using Egocentric Sensor Networks. PLoS ONE, 2015, 10, e0127769.	2.5	31
35	Ambulatory inertial spinal tracking using constraints. , 2014, , .		6
36	Innovative system for real-time ergonomic feedback in industrial manufacturing. Applied Ergonomics, 2013, 44, 566-574.	3.1	242

#	ARTICLE	IF	CITATIONS
37	A Low-Cost and Light-Weight Motion Tracking Suit. , 2013, , .		7
38	A personalized exercise trainer for the elderly. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 547-562.	1.4	33
39	A generic approach to inertial tracking of arbitrary kinematic chains. , 2013, , .		13
40	From Interactive to Adaptive Augmented Reality. , 2012, , .		5
41	Using egocentric vision to achieve robust inertial body tracking under magnetic disturbances. , 2011, , .		22
42	Using egocentric vision to achieve robust inertial body tracking under magnetic disturbances. , 2011, , .		1
43	Advanced tracking through efficient image processing and visualâ€“inertial sensor fusion. Computers and Graphics, 2009, 33, 59-72.	2.5	70
44	Using optical flow as lightweight SLAM alternative. , 2009, , .		4
45	Real-time vision-based tracking and reconstruction. Journal of Real-Time Image Processing, 2007, 2, 161-175.	3.5	17