

Benedikt Fasel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6855941/publications.pdf>

Version: 2024-02-01

18
papers

511
citations

759233

12
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Inertial Sensor Orientation Drift Reduction for Highly Dynamic Movements. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 77-86.	6.3	58
2	Potential Mechanisms Leading to Overuse Injuries of the Back in Alpine Ski Racing. American Journal of Sports Medicine, 2015, 43, 2042-2048.	4.2	55
3	Three-Dimensional Body and Centre of Mass Kinematics in Alpine Ski Racing Using Differential GNSS and Inertial Sensors. Remote Sensing, 2016, 8, 671.	4.0	49
4	Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. PLoS ONE, 2017, 12, e0181446.	2.5	48
5	A wrist sensor and algorithm to determine instantaneous walking cadence and speed in daily life walking. Medical and Biological Engineering and Computing, 2017, 55, 1773-1785.	2.8	42
6	The Use of Body Worn Sensors for Detecting the Vibrations Acting on the Lower Back in Alpine Ski Racing. Frontiers in Physiology, 2017, 8, 522.	2.8	42
7	An Inertial Sensor-Based Method for Estimating the Athlete's Relative Joint Center Positions and Center of Mass Kinematics in Alpine Ski Racing. Frontiers in Physiology, 2017, 8, 850.	2.8	39
8	Anatomically Standardized Maps Reveal Distinct Patterns of Cartilage Thickness With Increasing Severity of Medial Compartment Knee Osteoarthritis. Journal of Orthopaedic Research, 2017, 35, 2442-2451.	2.3	33
9	Course Setting as a Prevention Measure for Overuse Injuries of the Back in Alpine Ski Racing. Orthopaedic Journal of Sports Medicine, 2016, 4, 232596711663071.	1.7	32
10	An inertial sensor-based system for spatio-temporal analysis in classic cross-country skiing diagonal technique. Journal of Biomechanics, 2015, 48, 3199-3205.	2.1	27
11	Optimal slopes and speeds in uphill ski mountaineering: a laboratory study. European Journal of Applied Physiology, 2016, 116, 1011-1019.	2.5	17
12	A New Training Assessment Method for Alpine Ski Racing: Estimating Center of Mass Trajectory by Fusing Inertial Sensors With Periodically Available Position Anchor Points. Frontiers in Physiology, 2018, 9, 1203.	2.8	17
13	Standing Height as a Prevention Measure for Overuse Injuries of the Back in Alpine Ski Racing: A Kinematic and Kinetic Study of Giant Slalom. Orthopaedic Journal of Sports Medicine, 2018, 6, 232596711774784.	1.7	15
14	Optimal slopes and speeds in uphill ski mountaineering: a field study. European Journal of Applied Physiology, 2016, 116, 2017-2024.	2.5	12
15	Measuring spatio-temporal parameters of uphill ski-mountaineering with ski-fixed inertial sensors. Journal of Biomechanics, 2016, 49, 3052-3055.	2.1	11
16	A Magnet-Based Timing System to Detect Gate Crossings in Alpine Ski Racing. Sensors, 2019, 19, 940.	3.8	9
17	Evaluating objective measures of impairment to trunk strength and control for cross-country sit skiing. Sports Engineering, 2021, 24, 1.	1.1	4
18	Modelling locomotion periods and cadence distribution in daily life: how many days are required?. Gait and Posture, 2017, 57, 298.	1.4	1