

Sukyung Park

List of Publications by Year in descending order

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36
papers

1,224
citations

567281

15
h-index

414414

32
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docs citations

36
times ranked

977
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Lower Limb Kinetics and Kinematics during Walking by a Single IMU on the Lower Back Using Machine Learning. <i>Sensors</i> , 2020, 20, 130.	3.8	84
2	Spring-loaded inverted pendulum modeling improves neural network estimation of ground reaction forces. <i>Journal of Biomechanics</i> , 2020, 113, 110069.	2.1	8
3	Estimation of Three-Dimensional Lower Limb Kinetics Data during Walking Using Machine Learning from a Single IMU Attached to the Sacrum. <i>Sensors</i> , 2020, 20, 6277.	3.8	21
4	Golf Swing Segmentation from a Single IMU Using Machine Learning. <i>Sensors</i> , 2020, 20, 4466.	3.8	23
5	Estimation of the ground reaction forces from a single video camera based on the spring-like center of mass dynamics of human walking. <i>Journal of Biomechanics</i> , 2020, 113, 110074.	2.1	5
6	A bipedal compliant walking model generates periodic gait cycles with realistic swing dynamics. <i>Journal of Biomechanics</i> , 2019, 91, 79-84.	2.1	9
7	Kinematics of lower limbs during walking are emulated by springy walking model with a compliantly connected, off-centered curvy foot. <i>Journal of Biomechanics</i> , 2018, 71, 119-126.	2.1	14
8	Estimation of unmeasured ground reaction force data based on the oscillatory characteristics of the center of mass during human walking. <i>Journal of Biomechanics</i> , 2018, 71, 135-143.	2.1	15
9	Estimation of Unmeasured Golf Swing of Arm Based on the Swing Dynamics. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 745-751.	2.2	6
10	The bending stiffness of shoes is beneficial to running energetics if it does not disturb the natural MTP joint flexion. <i>Journal of Biomechanics</i> , 2017, 53, 127-135.	2.1	72
11	A springy pendulum could describe the swing leg kinetics of human walking. <i>Journal of Biomechanics</i> , 2016, 49, 1504-1509.	2.1	7
12	Computational evaluation of load carriage effects on gait balance stability. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1127-1136.	1.6	11
13	Loaded Versus Unloaded Gait Balance Stability: A Measure of Dynamic Walking. , 2015, , .		0
14	Compliant walking model with a curvy foot reflecting the position of ankle on reproducing the ankle torque profile. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2307-2311.	1.5	1
15	Reproduction of Walking Asymmetry in Knee Osteoarthritis with Split-Belt Conditions. <i>Journal of the Korean Society for Precision Engineering</i> , 2015, 32, 885-890.	0.2	0
16	Compliant bipedal model with the center of pressure excursion associated with oscillatory behavior of the center of mass reproduces the human gait dynamics. <i>Journal of Biomechanics</i> , 2014, 47, 223-229.	2.1	24
17	A modeling study of mechanical energetic optimality in incline walking. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 1393-1401.	1.5	3
18	Counter-movement strategy changes with vertical jump height to accommodate feasible force constraints. <i>Journal of Biomechanics</i> , 2014, 47, 3162-3168.	2.1	11

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19	Resonance-based oscillations could describe human gait mechanics under various loading conditions. <i>Journal of Biomechanics</i> , 2014, 47, 319-322.	2.1	23
20	Increase of push-off propulsion to compensate heel strike loss during step-to-step transition is limited at faster gait speeds. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 825-829.	2.2	3
21	Spring-like gait mechanics observed during walking in both young and older adults. <i>Journal of Biomechanics</i> , 2013, 46, 77-82.	2.1	45
22	A gain-scheduling approach to model human simultaneous visual tracking and balancing. , 2013, , .		0
23	A mechanical model of stereocilia that demonstrates a shift in the high-sensitivity region due to the interplay of a negative stiffness and an adaptation mechanism. <i>Bioinspiration and Biomimetics</i> , 2012, 7, 046013.	2.9	9
24	Effect of Awareness about Sensory Conflict to Linear Motion Perception. <i>Journal of Biomechanical Science and Engineering</i> , 2012, 7, 399-405.	0.3	0
25	Gait strategy changes with acceleration to accommodate the biomechanical constraint on push-off propulsion. <i>Journal of Biomechanics</i> , 2012, 45, 2920-2926.	2.1	11
26	The oscillatory behavior of the CoM facilitates mechanical energy balance between push-off and heel strike. <i>Journal of Biomechanics</i> , 2012, 45, 326-333.	2.1	19
27	Perturbation-dependent selection of postural feedback gain and its scaling. <i>Journal of Biomechanics</i> , 2012, 45, 1379-1386.	2.1	24
28	A gravitational impulse model predicts collision impulse and mechanical work during a step-to-step transition. <i>Journal of Biomechanics</i> , 2011, 44, 59-67.	2.1	27
29	Leg stiffness increases with speed to modulate gait frequency and propulsion energy. <i>Journal of Biomechanics</i> , 2011, 44, 1253-1258.	2.1	113
30	A mechanical model of the gating spring mechanism of stereocilia. <i>Journal of Biomechanics</i> , 2009, 42, 2158-2164.	2.1	8
31	Effect of reduced cutaneous cues on motion perception and postural control. <i>Experimental Brain Research</i> , 2009, 195, 361-369.	1.5	8
32	Postural Feedback Scaling Deficits in Parkinson's Disease. <i>Journal of Neurophysiology</i> , 2009, 102, 2910-2920.	1.8	81
33	Roll Rotation Cues Influence Roll Tilt Perception Assayed Using a Somatosensory Technique. <i>Journal of Neurophysiology</i> , 2006, 96, 486-491.	1.8	22
34	Vestibular Perception and Action Employ Qualitatively Different Mechanisms. I. Frequency Response of VOR and Perceptual Responses During Translation and Tilt. <i>Journal of Neurophysiology</i> , 2005, 94, 186-198.	1.8	147
35	Vestibular Perception and Action Employ Qualitatively Different Mechanisms. II. VOR and Perceptual Responses During Combined Tilt&Translation. <i>Journal of Neurophysiology</i> , 2005, 94, 199-205.	1.8	112
36	Postural feedback responses scale with biomechanical constraints in human standing. <i>Experimental Brain Research</i> , 2004, 154, 417-427.	1.5	258