Florent Moissenet

List of Publications by Year
in descending order

47 papers	632 citations	623734 14 h-index	610901 24 g-index
54 all docs	54 docs citations	54 times ranked	676 citing authors

#	Article	IF	Citations
1	A multimodal dataset of human gait at different walking speeds established on injury-free adult participants. Scientific Data, 2019, 6, 111.	5.3	65
2	A 3D lower limb musculoskeletal model for simultaneous estimation of musculo-tendon, joint contact, ligament and bone forces during gait. Journal of Biomechanics, 2014, 47, 50-58.	2.1	61
3	Kinematic models of the upper limb joints for multibody kinematics optimisation: An overview. Journal of Biomechanics, 2017, 62, 87-94.	2.1	60
4	Lower limb sagittal gait kinematics can be predicted based on walking speed, gender, age and BMI. Scientific Reports, 2019, 9, 9510.	3.3	44
5	Influence of joint models on lower-limb musculo-tendon forces and three-dimensional joint reaction forces during gait. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 146-160.	1.8	37
6	Alterations of musculoskeletal models for a more accurate estimation of lower limb joint contact forces during normal gait: A systematic review. Journal of Biomechanics, 2017, 63, 8-20.	2.1	35
7	Anatomical kinematic constraints: consequences on musculo-tendon forces and joint reactions. Multibody System Dynamics, 2012, 28, 125-141.	2.7	28
8	Global sensitivity analysis of the joint kinematics during gait to the parameters of a lower limb multi-body model. Medical and Biological Engineering and Computing, 2015, 53, 655-667.	2.8	28
9	Effect of various upper limb multibody models on soft tissue artefact correction: A case study. Journal of Biomechanics, 2017, 62, 102-109.	2.1	24
10	The interpretation of conventional gait indices is related to the normative dataâ€™s walking speed. Gait and Posture, 2017, 57, 217-218.	1.4	18
11	Home self-training: Visual feedback for assisting physical activity for stroke survivors. Computer Methods and Programs in Biomedicine, 2019, 176, 111-120.	4.7	16
12	EMG-based validation of musculo-skeletal models for gait analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 152-154.	1.6	15
13	Proposition of a Classification of Adult Patients with Hemiparesis in Chronic Phase. PLoS ONE, 2016, 11, e0156726.	2.5	15
14	Influence of a rhythmic auditory stimulation on asymptomatic gait. Gait and Posture, 2016, 50, 17-22.	1.4	15
15	Influence of the Level of Muscular Redundancy on the Validity of a Musculoskeletal Model. Journal of Biomechanical Engineering, 2016, 138, 021019.	1.3	15
16	Influence of normative dataâ€™s walking speed on the computation of conventional gait indices. Journal of Biomechanics, 2018, 76, 68-73.	2.1	14
17	An Optimization Method Tracking EMG, Ground Reactions Forces, and Marker Trajectories for Musculo-Tendon Forces Estimation in Equinus Gait. Frontiers in Neurorobotics, 2019, 13, 48.	2.8	14
18	State of the art and current limits of musculo-skeletal models for clinical applications. Movement and Sports Sciences - Science Et Motricite, 2015, , 7-17.	0.3	13

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19	Individual muscle contributions to ground reaction and to joint contact, ligament and bone forces during normal gait. Multibody System Dynamics, 2017, 40, 193-211.	2.7	13
20	Brain plasticity after implanted peroneal nerve electrical stimulation to improve gait in chronic stroke patients: Two case reports. NeuroRehabilitation, 2017, 40, 251-258.	1.3	13
21	Use of electromyography to optimize Lokomat Â® settings for subject-specific gait rehabilitation in post-stroke hemiparetic patients: A proof-of-concept study. Neurophysiologie Clinique, 2017, 47, 293-299.	2.2	12
22	Identifying and understanding gait deviations: critical review and perspectives. Movement and Sports Sciences - Science Et Motricite, 2017, , 77-88.	0.3	9
23	Validity of a musculoskeletal model using two different geometries for estimating hip contact forces during normal walking. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2000-2001.	1.6	8
24	Control of Stroke-Related Genu Recurvatum With Prolonged Timing of Dorsiflexor Functional Electrical Stimulation: A Case Study. Journal of Neurologic Physical Therapy, 2016, 40, 209-215.	1.4	7
25	Can a reduction approach predict reliable joint contact and musculo-tendon forces?. Journal of Biomechanics, 2019, 95, 109329.	2.1	7
26	Comparison of simulated key pinch after three surgical procedures for trapeziometacarpal osteoarthritis: a cadaver study. Journal of Hand Surgery: European Volume, 2021, 46, 1088-1095.	1.0	6
27	Multi-objective optimisation for musculoskeletal modelling: Application to a planar elbow model. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1108-1113.	1.8	5
28	Comparison and validation of five scapulothoracic models for correcting soft tissue artefact through multibody optimisation. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2014-2015.	1.6	5
29	Individual contributions of the lower limb muscles to the position of the centre of pressure during gait. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S137-S138.	1.6	4
30	Accuracy of the tibiofemoral contact forces estimated by a subject-specific musculoskeletal model with fluoroscopy-based contact point trajectories. Journal of Biomechanics, 2020, 113, 110117.	2.1	4
31	Comparison of two radiographic landmarks for centering the trapezial component in total trapeziometacarpal arthroplasty. Hand Surgery and Rehabilitation, 2021, 40, 609-613.	0.4	4
32	Contribution of individual musculo-tendon forces to the axial compression force of the femur during normal gait. Movement and Sports Sciences - Science Et Motricite, 2016, , 63-69.	0.3	3
33	Assessment of trapezial prosthetic cup migration: A biomechanical study. Hand Surgery and Rehabilitation, 2021, 40, 754-759.	0.4	3
34	Potential of the Pseudo-Inverse Method as a Constrained Static Optimization for Musculo-Tendon Forces Prediction. Journal of Biomechanical Engineering, 2012, 134, 064503.	1.3	2
35	Multibody Optimisations: From Kinematic Constraints to Knee Contact Forces and Ligament Forces. Springer Tracts in Advanced Robotics, 2019, , 65-89.	0.4	2
36	Introduction of a set of EMG-based muscular activations in a multi-objective optimisation when solving the muscular redundancy problem during gait. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 132-133.	1.6	1

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37	Influence of walking velocity on strategies of head stabilisation. Movement and Sports Sciences - Science Et Motricite, 2016, , 57-61.	0.3	1
38	Is the Pelvis-Thorax Coordination a Valuable Outcome Instrument to Assess Patients With Hip Osteoarthritis?. Frontiers in Bioengineering and Biotechnology, 2020, 7, 457.	4.1	1
39	Neuroplastic changes mediate motor recovery with implanted peroneal nerve stimulator in individuals with chronic stroke: An open-label multimodal pilot study. Annals of Physical and Rehabilitation Medicine, 2021, 64, 101358.	2.3	1
40	Introduction of Contact Forces Minimization in the Musculo-Tendon Forces Optimization During Gait. , 2011, , .		0
41	Implanted functional electrical stimulation of the fibularis communis nerve: Impacts on gait quality and consequences on cerebral cortex activity. Annals of Physical and Rehabilitation Medicine, 2013, 56, e385.	2.3	0
42	A New Optimization Criterion Introducing the Muscle Stretch Velocity in the Muscular Redundancy Problem: A First Step into the Modeling of Spastic Muscle. Cognitive Systems Monographs, 2013, , 155-164.	0.1	0
43	Simultaneous Prediction of Musculo-Tendon, Joint Contact, Ligament and Bone Forces in the Lower Limb During Gait Using a One-Step Static Optimisation Procedure. , 2013, , .		0
44	An upper limb model proposal for multi-body optimisation: effects of anatomical constraints on the kinematics. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 90-91.	1.6	0
45	Biomechanics analysis of the ilio-psoas transfer related to the lumbosacral myelomeningocele. Annals of Physical and Rehabilitation Medicine, 2014, 57, e111.	2.3	0
46	Long-term effects of an implantable peroneal nerve stimulator on kinematics and gait capacities in the drop-foot treatment of stroke survivors. Annals of Physical and Rehabilitation Medicine, 2015, 58, e157-e158.	2.3	0
47	Inertial data simulation from optoelectronic data during gait: Preliminary results of validation on one asymptomatic subject. Gait and Posture, 2021, 90, 74-75.	1.4	0