

Valentina Camomilla

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5961819/publications.pdf>

Version: 2024-02-01

63
papers

2,037
citations

218592

26
h-index

243529

44
g-index

67
all docs

67
docs citations

67
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends Supporting the In-Field Use of Wearable Inertial Sensors for Sport Performance Evaluation: A Systematic Review. <i>Sensors</i> , 2018, 18, 873.	2.1	311
2	An optimized protocol for hip joint centre determination using the functional method. <i>Journal of Biomechanics</i> , 2006, 39, 1096-1106.	0.9	218
3	Estimation of temporal parameters during sprint running using a trunk-mounted inertial measurement unit. <i>Journal of Biomechanics</i> , 2012, 45, 1123-1126.	0.9	90
4	Countermovement jump performance assessment using a wearable 3D inertial measurement unit. <i>Journal of Sports Sciences</i> , 2011, 29, 139-146.	1.0	87
5	SIAMOC position paper on gait analysis in clinical practice: General requirements, methods and appropriateness. Results of an Italian consensus conference. <i>Gait and Posture</i> , 2017, 58, 252-260.	0.6	82
6	The sensitivity of posturographic parameters to acquisition settings. <i>Medical Engineering and Physics</i> , 2002, 24, 623-631.	0.8	68
7	Human movement analysis: The soft tissue artefact issue. <i>Journal of Biomechanics</i> , 2017, 62, 1-4.	0.9	67
8	Hemodynamics as a possible internal mechanical disturbance to balance. <i>Gait and Posture</i> , 2001, 14, 28-35.	0.6	65
9	Standardization proposal of soft tissue artefact description for data sharing in human motion measurements. <i>Journal of Biomechanics</i> , 2017, 62, 5-13.	0.9	65
10	Neuromuscular control adaptations in elite athletes: the case of top level karateka. <i>European Journal of Applied Physiology</i> , 2010, 108, 1269-1280.	1.2	55
11	Methodological factors affecting joint moments estimation in clinical gait analysis: a systematic review. <i>BioMedical Engineering OnLine</i> , 2017, 16, 106.	1.3	53
12	Hip joint centre location: An ex vivo study. <i>Journal of Biomechanics</i> , 2009, 42, 818-823.	0.9	49
13	Trunk Inclination Estimate During the Sprint Start Using an Inertial Measurement Unit: A Validation Study. <i>Journal of Applied Biomechanics</i> , 2013, 29, 622-627.	0.3	48
14	Metrics for Describing Soft-Tissue Artefact and Its Effect on Pose, Size, and Shape of Marker Clusters. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 362-367.	2.5	40
15	A soft tissue artefact model driven by proximal and distal joint kinematics. <i>Journal of Biomechanics</i> , 2014, 47, 2354-2361.	0.9	40
16	Femoral anatomical frame: assessment of various definitions. <i>Medical Engineering and Physics</i> , 2003, 25, 425-431.	0.8	38
17	Wearable Sensors in Sports for Persons with Disability: A Systematic Review. <i>Sensors</i> , 2021, 21, 1858.	2.1	37
18	A hip joint kinematics driven model for the generation of realistic thigh soft tissue artefacts. <i>Journal of Biomechanics</i> , 2013, 46, 625-630.	0.9	33

#	ARTICLE	IF	CITATIONS
19	Generalized mathematical representation of the soft tissue artefact. <i>Journal of Biomechanics</i> , 2014, 47, 476-481.	0.9	33
20	Differences in neuromuscular control between impact and no impact roundhouse kick in athletes of different skill levels. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 140-150.	0.7	32
21	Novel technology in sports biomechanics: some words of caution. <i>Sports Biomechanics</i> , 2021, , 1-9.	0.8	32
22	Non-invasive assessment of superficial soft tissue local displacements during movement: A feasibility study. <i>Journal of Biomechanics</i> , 2009, 42, 931-937.	0.9	31
23	Tibio-femoral joint constraints for bone pose estimation during movement using multi-body optimization. <i>Gait and Posture</i> , 2011, 33, 706-711.	0.6	31
24	Intra-limb coordination in karate kicking: Effect of impacting or not impacting a target. <i>Human Movement Science</i> , 2014, 33, 108-119.	0.6	30
25	A model of the soft tissue artefact rigid component. <i>Journal of Biomechanics</i> , 2015, 48, 1752-1759.	0.9	30
26	Soft tissue displacement over pelvic anatomical landmarks during 3-D hip movements. <i>Journal of Biomechanics</i> , 2017, 62, 14-20.	0.9	28
27	Anatomical frame identification and reconstruction for repeatable lower limb joint kinematics estimates. <i>Journal of Biomechanics</i> , 2008, 41, 2219-2226.	0.9	27
28	What Portion of the Soft Tissue Artefact Requires Compensation When Estimating Joint Kinematics?. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 064502.	0.6	25
29	Repeated Kicking Actions in Karate: Effect on Technical Execution in Elite Practitioners. <i>International Journal of Sports Physiology and Performance</i> , 2016, 11, 363-369.	1.1	25
30	Enhanced anatomical calibration in human movement analysis. <i>Gait and Posture</i> , 2007, 26, 179-185.	0.6	24
31	Propagation of the hip joint centre location error to the estimate of femur vs pelvis orientation using a constrained or an unconstrained approach. <i>Journal of Biomechanics</i> , 2007, 40, 1228-1234.	0.9	22
32	Joint kinematics estimation using a multi-body kinematics optimisation and an extended Kalman filter, and embedding a soft tissue artefact model. <i>Journal of Biomechanics</i> , 2017, 62, 148-155.	0.9	19
33	Estimation of the centre of rotation: a methodological contribution. <i>Journal of Biomechanics</i> , 2004, 37, 413-416.	0.9	18
34	Agonist and antagonist muscle activation in elite athletes: influence of age. <i>European Journal of Applied Physiology</i> , 2015, 115, 47-56.	1.2	18
35	Rigid and non-rigid geometrical transformations of a marker-cluster and their impact on bone-pose estimation. <i>Journal of Biomechanics</i> , 2015, 48, 4166-4172.	0.9	16
36	Bone Pose Estimation in the Presence of Soft Tissue Artifact Using Triangular Cosserat Point Elements. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1181-1190.	1.3	15

#	ARTICLE	IF	CITATIONS
37	Elbow joint kinematics during cricket bowling using magneto-inertial sensors: A feasibility study. <i>Journal of Sports Sciences</i> , 2019, 37, 515-524.	1.0	15
38	The Use of Wearable Sensors for Preventing, Assessing, and Informing Recovery from Sport-Related Musculoskeletal Injuries: A Systematic Scoping Review. <i>Sensors</i> , 2022, 22, 3225.	2.1	13
39	Bone orientation and position estimation errors using Cosserat point elements and least squares methods: Application to gait. <i>Journal of Biomechanics</i> , 2017, 62, 110-116.	0.9	10
40	A wearable gait analysis protocol to support the choice of the appropriate ankle-foot orthosis: A comparative assessment in children with Cerebral Palsy. <i>Clinical Biomechanics</i> , 2019, 70, 177-185.	0.5	10
41	Limitations of the European barrier crash testing regulation relating to occupant safety. <i>Accident Analysis and Prevention</i> , 2019, 133, 105239.	3.0	10
42	Overuse-Related Injuries of the Musculoskeletal System: Systematic Review and Quantitative Synthesis of Injuries, Locations, Risk Factors and Assessment Techniques. <i>Sensors</i> , 2021, 21, 2438.	2.1	10
43	Feasibility of incorporating a soft tissue artefact model in multi-body optimisation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 194-196.	0.9	8
44	A qualitative analysis of soft tissue artefact during running. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 124-125.	0.9	7
45	Femur, tibia and fibula bone templates to estimate subject-specific knee ligament attachment site locations. <i>Journal of Biomechanics</i> , 2016, 49, 3523-3528.	0.9	7
46	Motor Competence in Individuals with Down Syndrome: Is an Improvement Still Possible in Adulthood?. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2157.	1.2	6
47	SISTINE: Sensorized Socks for Telemonitoring of Vascular Disease Patients. , 2021, , .		5
48	Modeling the Human Tibiofemoral Joint Using Ex Vivo Determined Compliance Matrices. <i>Journal of Biomechanical Engineering</i> , 2016, 138, 061010.	0.6	4
49	Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2018, , 17-45.		4
50	Ultrasound for identification of anatomical landmarks in stereophotogrammetry: a new method for the calibration of the probe. <i>Journal of Biomechanics</i> , 2006, 39, S652.	0.9	3
51	Hopping skill in individuals with Down syndrome: A qualitative and quantitative assessment. <i>Human Movement Science</i> , 2021, 78, 102821.	0.6	3
52	Three-Dimensional Reconstruction of the Human Skeleton in Motion. , 2017, , 1-29.		3
53	Assessing motor competence in kicking in individuals with Down syndrome through wearable motion sensors. <i>Journal of Intellectual Disability Research</i> , 2022, , .	1.2	3
54	Biomechanics of the Hammer Throw: Narrative Review. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 853536.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Hip joint centre position estimation using a dual unscented Kalman filter for computer-assisted orthopaedic surgery. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 971-982.	1.0	2
56	A joint kinematics driven model of the pelvic soft tissue artefact. Journal of Biomechanics, 2020, 111, 109998.	0.9	2
57	Comparison of two variants of a kata technique (unsu): the neuromechanical point of view. Journal of Sports Science and Medicine, 2009, 8, 29-35.	0.7	2
58	A functional calibration protocol for ankle plantar-dorsiflexion estimate using magnetic and inertial measurement units: Repeatability and reliability assessment. Journal of Biomechanics, 2022, 141, 111202.	0.9	2
59	Musculoskeletal system modelling for the evaluation of motor disability. Theoretical Issues in Ergonomics Science, 2005, 6, 319-324.	1.0	0
60	Estimate of performance correlated parameters in sprint running using a wearable inertial measurement unit. Gait and Posture, 2009, 30, S8.	0.6	0
61	Poster Session III, July 15th 2010 " Abstracts Inertial sensors in sports: application to vertical jumps. Procedia Engineering, 2010, 2, 3489.	1.2	0
62	Experimental study protocol of the project "Motor function and Vitamin D: Toolkit for motor performance and risk Assessment (MOVIDA)" PLoS ONE, 2021, 16, e0254878.	1.1	0
63	Gross Motor Functions Assessed Through The Tgmd-3 In Down Syndrome Individuals And Related Gender Differences. Medicine and Science in Sports and Exercise, 2020, 52, 557-557.	0.2	0