

Kumar Mithraratne

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

620
citations

687363

13
h-index

610901

24
g-index

41
all docs

41
docs citations

41
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinect V2-Based Gait Analysis for Children with Cerebral Palsy: Validity and Reliability of Spatial Margin of Stability and Spatiotemporal Variables. <i>Sensors</i> , 2021, 21, 2104.	3.8	13
2	The effect of musculoskeletal model scaling methods on ankle joint kinematics and muscle force prediction during gait for children with cerebral palsy and equinus gait. <i>Computers in Biology and Medicine</i> , 2021, 134, 104436.	7.0	3
3	Towards rapid prediction of personalised muscle mechanics: integration with diffusion tensor imaging. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 492-500.	1.9	6
4	Host Mesh Fitting of a Generic Musculoskeletal Model of the Lower Limbs to Subject-Specific Body Surface Data: A Validation Study. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-8.	1.1	3
5	The Validity and Reliability of a Kinect v2-Based Gait Analysis System for Children with Cerebral Palsy. <i>Sensors</i> , 2019, 19, 1660.	3.8	39
6	Effect of different musculoskeletal model scaling methods on muscle force prediction for patients with cerebral palsy and equinus gait. , 2019, , .		0
7	Modal analysis of the thermal conductivity of nanowires: examining unique thermal transport features. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 225301.	1.8	5
8	Biomechanics of Three-Dimensional Face. , 2018, , 33-65.		0
9	Reduced thermal conductivity of nanotwinned random layer structures: a promising nanostructuring towards efficient Si and Si/Ge thermoelectric materials. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 204006.	2.8	5
10	Reduced thermal conductivity of Si/Ge random layer nanowires: A comparative study against superlattice counterparts. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	11
11	A finite element model to investigate the effect of ulnar variance on distal radioulnar joint mechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02790.	2.1	8
12	A diffusion-weighted imaging informed continuum model of the rabbit triceps surae complex. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1729-1741.	2.8	6
13	Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks. <i>Medical Engineering and Physics</i> , 2017, 50, 43-49.	1.7	15
14	Examining the influence of distal radius orientation on distal radioulnar joint contact using a finite element model. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02766.	2.1	4
15	Adaptive bill morphology for enhanced tool manipulation in New Caledonian crows. <i>Scientific Reports</i> , 2016, 6, 22776.	3.3	37
16	Vector-based forearm rotation moment arms – A sensitivity analysis. <i>Medical Engineering and Physics</i> , 2016, 38, 1109-1114.	1.7	1
17	Roadmap for cardiovascular circulation model. <i>Journal of Physiology</i> , 2016, 594, 6909-6928.	2.9	33
18	The influence and biomechanical role of cartilage split line pattern on tibiofemoral cartilage stress distribution during the stance phase of gait. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 195-204.	2.8	28

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19	On modelling large deformations of heterogeneous biological tissues using a mixed finite element formulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 477-484.	1.6	6
20	Relationship between tissue stress during gait in healthy volunteers and patterns of urate deposition and bone erosion in gout: a biomechanical computational modelling study. <i>RMD Open</i> , 2015, 1, e000101.	3.8	11
21	A framework for generating anatomically detailed subject-specific human facial models for biomechanical simulations. <i>Visual Computer</i> , 2015, 31, 527-539.	3.5	10
22	Emulating facial biomechanics using multivariate partial least squares surrogate models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 1103-1120.	2.1	14
23	Generating Facial Expressions Using an Anatomically Accurate Biomechanical Model. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014, 20, 1519-1529.	4.4	21
24	Numerical Simulation of Blood Flow in an Anatomically-Accurate Cerebral Venous Tree. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 85-91.	8.9	19
25	Modelling facial expressions: A framework for simulating nonlinear soft tissue deformations using embedded 3D muscles. <i>Finite Elements in Analysis and Design</i> , 2013, 76, 63-70.	3.2	30
26	Estimating muscle activation patterns using a surrogate model of facial biomechanics. , 2013, 2013, 7172-5.		7
27	Mechanics of the foot Part 2: A coupled solidâ€“fluid model to investigate blood transport in the pathologic foot. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 1071-1081.	2.1	19
28	Mechanics of the foot Part 1: A continuum framework for evaluating soft tissue stiffening in the pathologic foot. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 1056-1070.	2.1	24
29	Toward Computer Modelling of Blood Flow in an Anatomically Accurate Arterial Tree in Endovascular Interventions. , 2012, , 107-118.		0
30	OpenCMISS: A multi-physics & multi-scale computational infrastructure for the VPH/Physiome project. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 107, 32-47.	2.9	123
31	Simulating facial expressions using anatomically accurate biomechanical model. , 2011, , .		1
32	Computer simulation of vertebral artery occlusion in endovascular procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010, 5, 29-37.	2.8	8
33	Subject-specific modelling of lower limb muscles in children with cerebral palsy. <i>Clinical Biomechanics</i> , 2010, 25, 88-94.	1.2	69
34	Error propagation from kinematic data to modeled muscle-tendon lengths during walking. <i>Journal of Biomechanics</i> , 2009, 42, 77-81.	2.1	6
35	Anatomically-based musculoskeletal modeling: prediction and validation of muscle deformation during walking. <i>Visual Computer</i> , 2009, 25, 843-851.	3.5	17
36	A Hybrid 1D and 3D Approach to Hemodynamics Modelling for a Patient-Specific Cerebral Vasculature and Aneurysm. <i>Lecture Notes in Computer Science</i> , 2009, 12, 323-330.	1.3	9

#	ARTICLE	IF	CITATIONS
37	An Anatomically Based Finite Element Model of the Lower Limbs in the Seated Posture. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6327-30.	0.5	5
38	Simulation of High Thermal Mass Passive Solar Buildings. Architectural Science Review, 2006, 49, 17-29.	2.2	1
39	Modelling of Thermal Characteristics of Insulated Mass in Zero-heating Passive Solar Houses: Part 1â€”Theoretical Analysis. Architectural Science Review, 2006, 49, 213-220.	2.2	1
40	Modelling of Thermal Characteristics of Insulated Mass in Zero-heating Passive Solar Houses: Part 2â€”Simulation Results. Architectural Science Review, 2006, 49, 221-228.	2.2	1