

# James Yang

## List of Publications by Year in descending order

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228  
papers

3,065  
citations

172386

29  
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233338

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233  
all docs

233  
docs citations

233  
times ranked

2073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Predictive Model for Lifting by Integrating Skeletal Motion Prediction With an OpenSim Musculoskeletal Model. IEEE Transactions on Biomedical Engineering, 2022, 69, 1111-1122.	2.5	9
2	Finite element-based safety prediction for hydraulic excavator rollover protective structure and experimental validation. International Journal of Crashworthiness, 2022, 27, 955-967.	1.1	1
3	Optimization-based subject-specific planar human vertical jumping prediction: Effect of elbow flexion and weighted vest. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 095441192110440.	1.0	0
4	Improved heat coefficients for joint-space metabolic energy expenditure model during level, uphill, and downhill walking. PLoS ONE, 2022, 17, e0267120.	1.1	1
5	Joint fatigue-based optimal posture prediction for maximizing endurance time in box carrying task. Multibody System Dynamics, 2022, 55, 323-339.	1.7	6
6	Physical Design Factors Contributing to Patient Falls. Journal of Patient Safety, 2021, 17, e135-e142.	0.7	11
7	Multi-objective optimization for two-dimensional maximum weight lifting prediction considering dynamic strength. Engineering Optimization, 2021, 53, 206-220.	1.5	14
8	Dual-chamber pneumatically interconnected suspension: Modeling and theoretical analysis. Mechanical Systems and Signal Processing, 2021, 147, 107125.	4.4	26
9	Object shape affects hand grip function for heavy objects in younger and older adults. Ergonomics, 2021, 64, 722-732.	1.1	1
10	Improved K-medoids algorithm-based clustering analysis for handle driving force in automotive manual sliding door closing process. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 871-880.	1.1	2
11	Single Task Optimization-Based Planar Box Delivery Motion Simulation and Experimental Validation. Journal of Mechanisms and Robotics, 2021, 13, .	1.5	2
12	Two-Dimensional Versus Three-Dimensional Symmetric Lifting Motion Prediction Models: A Case Study. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	7
13	Assisted Spatial Sit-to-Stand Prediction-Part 1: Virtual Healthy Elderly Individuals. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	2
14	Optimization-based subject-specific planar human vertical jumping prediction: Model development and validation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 805-818.	1.0	1
15	Assisted Spatial Sit-to-Stand Predictionâ€”Part 2: Virtual Injured Elderly Individuals. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	1
16	Mechanics of Magnetic Robots Akin to Soft Beams Supported at Unanchored Contacts. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	1.1	1
17	Functional muscle group- and sex-specific parameters for a three-compartment controller muscle fatigue model applied to isometric contractions. Journal of Biomechanics, 2021, 127, 110695.	0.9	2
18	Three-dimensional asymmetric maximum weight lifting prediction considering dynamic joint strength. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 437-446.	1.0	12

#	ARTICLE	IF	CITATIONS
19	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 1-Model Development. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, , 1-12.	0.5	0
20	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 2-Application. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, , 1-12.	0.5	0
21	An Introduction to the Special Issue on .. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 107-110.	0.5	0
22	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 1-Model Development. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 199-210.	0.5	3
23	A Collision Avoidance Algorithm for Human Motion Prediction Based on Perceived Risk of Collision: Part 2-Application. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 211-222.	0.5	4
24	An Introduction to the Special Issue on <i>Digital Human Modeling (DHM) in Ergonomics 4.0</i>. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 107-110.	0.5	1
25	Three dimensional unassisted sit-to-stand prediction for virtual healthy young and elderly individuals. Multibody System Dynamics, 2020, 49, 33-52.	1.7	11
26	Effect of disturbances and sensorimotor deficits on the postural robustness of an ankle-hip model of balance on a balance board. Nonlinear Dynamics, 2020, 99, 1959-1973.	2.7	2
27	Effects of Volitional Spine Stabilization on Trunk Control During Asymmetric Lifting Task in Patients With Recurrent Low Back Pain. Global Spine Journal, 2020, 10, 1006-1014.	1.2	2
28	Validation of an ankle-hip model of balance on a balance board via kinematic frequency-content. Gait and Posture, 2020, 82, 313-321.	0.6	2
29	Two-Dimensional Symmetric Box Delivery Motion Prediction and Validation: Subtask-Based Optimization Method. Applied Sciences (Switzerland), 2020, 10, 8798.	1.3	4
30	Modelling muscle recovery from a fatigued state in isometric contractions for the ankle joint. Journal of Biomechanics, 2020, 100, 109601.	0.9	3
31	Dynamic-joint-strength-based two-dimensional symmetric maximum weight-lifting simulation: Model development and validation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 660-673.	1.0	7
32	Modeling Planar Joints With Clearance Between the Guide and Roller in Mechanisms. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	2
33	Effect of Ankle-Pivot Misalignment and Upward Ankle Vertical Displacement on Stability and Equilibrium Location for an Ankle-Hip Model of Balance on a Balance Board. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	1
34	Jump and Landing Biomechanical Variables and Methods: A Literature Review. Critical Reviews in Biomedical Engineering, 2020, 48, 211-222.	0.5	4
35	Prediction of Initial and Final Postures for Motion Planning in Human Manual Manipulation Tasks Based on Cognitive Decision Making. Journal of Computing and Information Science in Engineering, 2020, 20, .	1.7	5
36	Three-Dimensional Symmetric Maximum Weight Lifting Prediction. , 2020, , .		3

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37	Approaches to Study Spine Biomechanics: A Literature Review. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 453-462.	0.5	1
38	Human-Inspired Balance Control of a Humanoid on a Rotating Board. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 115-126.	0.5	1
39	Human head modeling and applications. , 2019, , 217-242.		1
40	Finite Element Based-Analysis for Pre and Post Lumbar Fusion of Adult Degenerative Scoliosis Patients. <i>Spine Deformity</i> , 2019, 7, 543-552.	0.7	13
41	The Effect of Surgical Alignment in Adult Scoliotic Spines on Axial Cyclic Vibration: A Finite Element Study. <i>Journal of Computing and Information Science in Engineering</i> , 2019, 19, .	1.7	10
42	Basin of Attraction and Limit Cycle Oscillation Amplitude of an Ankle-Hip Model of Balance on a Balance Board. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	5
43	Finite element method-based study of pedicle screwâ€“bone connection in pullout test and physiological spinal loads. <i>Medical Engineering and Physics</i> , 2019, 67, 11-21.	0.8	26
44	Subject-specific strength percentile determination for two-dimensional symmetric lifting considering dynamic joint strength. <i>Multibody System Dynamics</i> , 2019, 46, 63-76.	1.7	16
45	A Review of Magnetically Actuated Milli/Micro-Scale Robots Locomotion and Features. <i>Critical Reviews in Biomedical Engineering</i> , 2019, 47, 379-394.	0.5	7
46	Stress distribution in vertebral bone and pedicle screw and screwâ€“bone load transfers among various fixation methods for lumbar spine surgical alignment: A finite element study. <i>Medical Engineering and Physics</i> , 2019, 63, 26-32.	0.8	34
47	Numerical Nonlinear Analysis for Dynamic Stability of an Ankle-Hip Model of Balance on a Balance Board. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019, 14, .	0.7	4
48	The Effect of Object Surfaces and Shapes on Hand Grip Function for Heavy Objects. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 446-452.	0.5	0
49	Review of Models and Robotic Devices for Stroke Survivorsâ€™ Upper Extremity Rehabilitation. , 2019, , .		1
50	Powered Ankle-Foot Prostheses: A Survey on Sensing Systems and Control Strategies. , 2019, , .		0
51	Muscle Force Prediction in OpenSim Using Skeleton Motion Optimization Results As Input Data. , 2019, , .		3
52	Grasping Force Optimization Approaches for Anthropomorphic Hands. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	1.5	13
53	Examining the Robustness of Grasping Force Optimization Methods Using Uncertainty Analysis. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2018, 4, .	0.7	1
54	Study of the micro-climate and bacterial distribution in the deadspace of N95 filtering face respirators. <i>Scientific Reports</i> , 2018, 8, 17382.	1.6	15

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55	Validation of a Newly Proposed 3D Flexible Ring Tire Model Through Adams FTire Full-Vehicle Simulations. , 2018, , .		0
56	Modeling and Characteristics Analysis on Hydraulic Operating Mechanism for Ultra-High Voltage Circuit Breakers. , 2018, , .		0
57	Spherical mesophase soft carbon materials with micro-nano composite structure and their applications in lithium-ion batteries. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2018, 40, 1675-1680.	1.2	8
58	Modeling and optimization for pneumatically pitch-interconnected suspensions of a vehicle. Journal of Sound and Vibration, 2018, 432, 290-309.	2.1	45
59	Effect of sensory-motor latencies and active muscular stiffness on stability for an ankle-hip model of balance on a balance board. Journal of Biomechanics, 2018, 75, 77-88.	0.9	11
60	Finite Element Analysis of Pre and Post Lumbar Fusion for Adult Degenerative Scoliosis Patients. Lecture Notes in Bioengineering, 2018, , 209-217.	0.3	1
61	In-Plane Flexible Ring Tire Modelâ€™Part 2: Parameterization. Tire Science and Technology, 2018, 46, 220-240.	0.3	1
62	In-Plane Flexible Ring Tire Modelâ€™Part 1: Modeling and Parameter Identification. Tire Science and Technology, 2018, 46, 174-219.	0.3	3
63	Lumbar spine finite element model for healthy subjects: development and validation. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1-15.	0.9	106
64	Finite element method-based study for effect of adult degenerative scoliosis on the spinal vibration characteristics. Computers in Biology and Medicine, 2017, 84, 53-58.	3.9	26
65	Mirror neuron activation of musicians and non-musicians in response to motion captured piano performances. Brain and Cognition, 2017, 115, 47-55.	0.8	16
66	State estimation in roll dynamics for commercial vehicles. Vehicle System Dynamics, 2017, 55, 313-337.	2.2	21
67	An intelligent FFR with a self-adjustable ventilation fan. Journal of Occupational and Environmental Hygiene, 2017, 14, D173-D178.	0.4	2
68	A novel air spring dynamic model with pneumatic thermodynamics, effective friction and viscoelastic damping. Journal of Sound and Vibration, 2017, 408, 87-104.	2.1	57
69	Fall Prevention Therapies for Individuals With Stroke: A Survey. , 2017, , .		2
70	Comparison of Fatigue Behaviors of Spinal Implants Under Physiological Spinal Loads: A Finite Element Pilot Study. , 2017, , .		0
71	Anterior Cruciate Ligament (ACL) Injury: A Literature Review. , 2017, , .		1
72	Modelling the stochastic nature of the available coefficient of friction at footwear-floor interfaces. Ergonomics, 2017, 60, 977-984.	1.1	1

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73	Parameter identification of in-plane flexible ring tyre model based on static load-deflection data: some insights. International Journal of Vehicle Performance, 2017, 3, 180.	0.2	2
74	Nonlinear dynamic model of air spring with a damper for vehicle ride comfort. Nonlinear Dynamics, 2017, 89, 1545-1568.	2.7	61
75	Quantitative Motor Assessment, Detection, and Suppression of Parkinson's Disease Hand Tremor: A Literature Review. , 2016, , .		1
76	Finite Element Method-Based Analysis for Effect of Vibration on Healthy and Scoliotic Spines. , 2016, , .		8
77	A Review on Human Motion Prediction in Sit to Stand and Lifting Tasks. , 2016, , .		2
78	Effects of volitional spine stabilization on lifting task in recurrent low back pain population. European Spine Journal, 2016, 25, 2833-2841.	1.0	13
79	Experimental identification of potential falls in older adult hospital patients. Journal of Biomechanics, 2016, 49, 1016-1020.	0.9	6
80	Optimization Algorithm Comparison for In-Plane Flexible Ring Tire Model Parameter Identification. , 2016, , .		0
81	Force Optimization Approaches for Common Anthropomorphic Grasps. , 2016, , .		3
82	Lifting Motions During Patient Repositioning in Novice and Experienced Nurses: A Pilot Study. , 2016, , .		0
83	Velocity and normal tyre force estimation for heavy trucks based on vehicle dynamic simulation considering the road slope angle. Vehicle System Dynamics, 2016, 54, 137-167.	2.2	18
84	Predicting the probability of slip in gait: methodology and distribution study. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 93-100.	0.9	3
85	HUMAN STAIR ASCENT AND DESCENT SIMULATION USING A HYBRID OPTIMIZATION FORMULATION. International Journal of Robotics and Automation, 2016, 31, .	0.1	1
86	Simulation-Based Study of Impact Energy Absorption in American Football Helmet. , 2016, , .		0
87	Identifying Possible Patient Slips and Falls Using Motion Capture Experiments. , 2015, , .		0
88	Human Facial Soft Tissue Thickness and Mechanical Properties: A Literature Review. , 2015, , .		6
89	In-Plane Flexible Ring Tire Model Validation Through ADAMS FTire Model Virtual Tests. , 2015, , .		1
90	Contact Pressure Sensitivity Analysis in N95 Filtering Facepiece Respirator With Strap Location, Friction, and Headform Material Property. , 2015, , .		1

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91	American Football Helmet for Preventing Concussion, a Literature Review. <i>Procedia Manufacturing</i> , 2015, 3, 3796-3803.	1.9	8
92	Recursive Estimation of Vehicle Inertial Parameters Using Polynomial Chaos Theory via Vehicle Handling Model. , 2015, , .		0
93	Probabilistic sensitivity analysis of in-vehicle reach tasks for digital human models considering anthropometric measurement uncertainty. <i>Robotica</i> , 2015, 33, 498-512.	1.3	1
94	Simulated effect of driver and vehicle interaction on vehicle interior layout. <i>International Journal of Industrial Ergonomics</i> , 2015, 49, 11-20.	1.5	13
95	Mesh Generation With a Standardized Headform for CFD Simulations of Particle Aspiration. , 2015, , .		0
96	Simulation-based assessment for construction helmets. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 24-37.	0.9	22
97	Estimating the Dead Space Volume Between a Headform and N95 Filtering Facepiece Respirator Using Microsoft Kinect. <i>Journal of Occupational and Environmental Hygiene</i> , 2015, 12, 538-546.	0.4	18
98	An Improved Human Biodynamic Model Considering the Interaction between Feet and Ground. <i>SAE International Journal of Commercial Vehicles</i> , 2015, 8, 13-19.	0.4	6
99	Effects of Gender and Recurrent Low Back Pain on Lifting Style. <i>Central European Journal of Sport Sciences and Medicine</i> , 2015, 11, 15-28.	0.1	5
100	Musical Embodiment and Perception: Performances, Avatars and Audiences. <i>Signata</i> , 2015, , 353-381.	0.1	2
101	Simulation-Based Unassisted Sit-to-Stand Motion Prediction for Healthy Young Individuals. , 2014, , .		2
102	Human Stair Ascent and Descent Simulations. , 2014, , .		0
103	Computing Carbon Dioxide and Humidity in Filtering Facepiece Respirator Cavity During Breathing Cycles. , 2014, , .		6
104	Virtual human hand: model and kinematics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 568-579.	0.9	30
105	Optimal Posture and Supporting Hand Force Prediction for Common Automotive Assembly One-Handed Tasks. <i>Journal of Mechanisms and Robotics</i> , 2014, 6, .	1.5	2
106	A Novel Algorithm for Determining Contact Area Between a Respirator and a Headform. <i>Journal of Occupational and Environmental Hygiene</i> , 2014, 11, 227-237.	0.4	15
107	Simulated Effects of Head Movement on Contact Pressures Between Headforms and N95 Filtering Facepiece Respirators-Part 1: Headform Model and Validation. <i>Annals of Occupational Hygiene</i> , 2014, 58, 1175-85.	1.9	6
108	Simulated Effects of Head Movement on Contact Pressures between Headforms and N95 Filtering Facepiece Respirators Part 2: Simulation. <i>Annals of Occupational Hygiene</i> , 2014, 58, 1186-99.	1.9	10

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109	In-Plane Rigid Ring-Based Tire Model: Parameter Identification, Sensitivity Analyses, and Effect on Ride Comfort. , 2014, , .		0
110	Effect of Uncertainty on Human Posture Prediction. , 2014, , .		0
111	Simulation and Evaluation of Respirator Face Seal Leaks Using Computational Fluid Dynamics and Infrared Imaging. Annals of Occupational Hygiene, 2013, 57, 493-506.	1.9	55
112	Effect of human link length determination on posture reconstruction. Applied Ergonomics, 2013, 44, 93-100.	1.7	6
113	Vertical Ground Reaction Forces for Given Human Standing Posture With Uneven Terrains: Prediction and Validation. IEEE Transactions on Human-Machine Systems, 2013, 43, 225-234.	2.5	6
114	Optimization-based posture reconstruction for digital human models. Computers and Industrial Engineering, 2013, 66, 125-132.	3.4	6
115	Control of Hand Prostheses: A Literature Review. , 2013, , .		7
116	Design and analysis of a novel earpieceâ€less eyeglass frame. Journal of Engineering, Design and Technology, 2013, 11, 158-177.	1.1	1
117	Design, Control, and Sensory Feedback of Externally Powered Hand Prostheses: A Literature Review. Critical Reviews in Biomedical Engineering, 2013, 41, 161-181.	0.5	32
118	Digital Human Forward Kinematic and Dynamic Reliabilities. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	1.7	2
119	Computer-Aided Customized Shape Design of an N95 Filtering Facepiece Respirator. , 2013, , .		2
120	MOTION SYNTHESIS FOR A DIGITAL PREGNANT WOMAN MULTIBODY SYSTEM. International Journal of Robotics and Automation, 2013, 28, .	0.1	1
121	Cognitive-Based Terminal State Prediction for Human Motion Planning. , 2013, , .		0
122	Potential Methods for Prediction of Onset of Slip in Gait During the Transition From Double Support to Single Support. , 2013, , .		1
123	Physics-Based Seated Posture Prediction for Pregnant Women and Validation Considering Ground and Seat Pan Contacts. Journal of Biomechanical Engineering, 2012, 134, .	0.6	15
124	A NEW STABILITY CRITERION FOR HUMAN SEATED TASKS WITH GIVEN POSTURES. International Journal of Humanoid Robotics, 2012, 09, 1250015.	0.6	6
125	An inverse optimization approach for determining weights of joint displacement objective function for upper body kinematic posture prediction. Robotica, 2012, 30, 389-404.	1.3	9
126	Probabilistic Approach for Digital Human Kinematic and Dynamic Reliabilities. , 2012, , .		1



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127	Joint discomfort human performance measure for driver posture prediction: some insights. International Journal of Human Factors Modelling and Simulation, 2012, 3, 253.	0.1	4
128	A Survey for Methods of Detecting Aircraft Vortices. , 2012, , .		1
129	Finite Element Analysis of Piezoelectric Strips for Modifying Ankle Torques in Active Prosthetic Feet: A Pilot Study. , 2012, , .		1
130	Prediction of Supporting Hand Forces for Common Automotive Assembly Tasks Based on Optimization and Stability Techniques for Given Posture. , 2012, , .		0
131	Nonlinear inverse optimization approach for determining the weights of objective function in standing reach tasks. Computers and Industrial Engineering, 2012, 63, 791-801.	3.4	2
132	Methodology for Simulating Air Leakages of an N95 Filtering Facepiece Respirator-A Pilot Study. Computer-Aided Design and Applications, 2012, 9, 43-53.	0.4	2
133	Headform and N95 Filtering Facepiece Respirator Interaction: Contact Pressure Simulation and Validation. Journal of Occupational and Environmental Hygiene, 2012, 9, 46-58.	0.4	59
134	Hybrid method for driver accommodation using optimization-based digital human models. CAD Computer Aided Design, 2012, 44, 29-39.	1.4	16
135	CALCULATING SUPPORT REACTION FORCES IN PHYSICS-BASED SEATED POSTURE PREDICTION FOR PREGNANT WOMEN. International Journal of Robotics and Automation, 2012, 27, .	0.1	5
136	Tools to design new devices for rehabilitation or robotics. , 2011, , .		0
137	Contact Area Determination between a N95 Filtering Facepiece Respirator and a Headform. Lecture Notes in Computer Science, 2011, , 119-128.	1.0	1
138	Cloth Modeling and Simulation: A Literature Survey. Lecture Notes in Computer Science, 2011, , 312-320.	1.0	6
139	Formulation of Human Performance Measures for Full Body Pregnant Women Standing Posture Prediction. , 2011, , .		3
140	Optimisation-based approach for determining driver seat adjustment range for vehicles. International Journal of Vehicle Design, 2011, 57, 148.	0.1	11
141	Determining the initial configuration of uninterrupted redundant manipulator trajectories in a manufacturing environment. Robotics and Computer-Integrated Manufacturing, 2011, 27, 22-32.	6.1	3
142	Concurrent motion planning and reaction load distribution for redundant dynamic systems under external holonomic constraints. International Journal for Numerical Methods in Engineering, 2011, 88, 47-65.	1.5	14
143	Sensitivity analysis of important parameters affecting contact pressure between a respirator and a headform. International Journal of Industrial Ergonomics, 2011, 41, 268-279.	1.5	28
144	Multi-objective optimization-based method for kinematic posture prediction: development and validation. Robotica, 2011, 29, 245-253.	1.3	38

#	ARTICLE	IF	CITATIONS
145	Prosthetics for Transtibial Amputees: A Literature Survey. , 2011, , .		1
146	Ground Reaction Forces for Various Standing Tasks Considering Generic Terrain. , 2011, , .		2
147	An Alternative Formulation for Determining Weights of Joint Displacement Objective Function in Seated Posture Prediction. Lecture Notes in Computer Science, 2011, , 231-242.	1.0	3
148	Motion Capture Experiments for Validating Optimization-Based Human Models. Lecture Notes in Computer Science, 2011, , 59-68.	1.0	7
149	Optimization-Based Seated Posture Prediction Considering Contact With Environment. , 2011, , .		5
150	Predicting Support Reaction Forces for Standing and Seated Tasks with Given Postures-A Preliminary Study. Lecture Notes in Computer Science, 2011, , 89-98.	1.0	0
151	Pseudo Standing, Forward Falling, and Pulling Simulation for Pregnant Women. , 2011, , .		0
152	Planar Vertical Jumping Simulation-A Pilot Study. Lecture Notes in Computer Science, 2011, , 161-170.	1.0	0
153	Prediction of On-Stride Walking for Pregnant Women. , 2010, , .		1
154	Predictive dynamics: an optimization-based novel approach for human motion simulation. Structural and Multidisciplinary Optimization, 2010, 41, 465-479.	1.7	101
155	Dynamic motion planning of overarm throw for a biped human multibody system. Multibody System Dynamics, 2010, 24, 1-24.	1.7	36
156	Simulation of planar flexible multibody systems with clearance and lubricated revolute joints. Nonlinear Dynamics, 2010, 60, 489-511.	2.7	204
157	Digital Human Model for Driver Seat Adjustment Range Determination. , 2010, , .		4
158	Contact Pressure Study of N95 Filtering Face-piece Respirators Using Finite Element Method. Computer-Aided Design and Applications, 2010, 7, 847-861.	0.4	19
159	Simulation-Based Assessment of Rear Effect to Ballistic Helmet Impact. Computer-Aided Design and Applications, 2010, 7, 59-73.	0.4	30
160	Study of control for the automated clutch of an automated manual transmission vehicle based on rapid control prototyping. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2010, 224, 475-487.	1.1	5
161	Dynamic Responses of Beam With Sloping Support Traversed by a Moving Mass. , 2010, , .		0
162	WORKSPACE OF DIGITAL HUMAN LOWER EXTREMITIES. International Journal of Humanoid Robotics, 2009, 06, 291-306.	0.6	1

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163	Planning load-effective dynamic motions of highly articulated human model for generic tasks. <i>Robotica</i> , 2009, 27, 739.	1.3	18
164	Optimization-based posture prediction for human upper body. <i>Robotica</i> , 2009, 27, 607-620.	1.3	31
165	An Efficient Hybrid Method for Multibody Dynamics Simulation Based on Absolute Nodal Coordinate Formulation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2009, 4, .	0.7	65
166	Human reach envelope and zone differentiation for ergonomic design. <i>Human Factors and Ergonomics in Manufacturing</i> , 2009, 19, 15-34.	1.4	22
167	Workspace zone differentiation tool for visualization of seated postural comfort. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 267-276.	1.5	15
168	Simulation of a viscoelastic flexible multibody system using absolute nodal coordinate and fractional derivative methods. <i>Multibody System Dynamics</i> , 2009, 21, 281-303.	1.7	42
169	A crossing sensitivity filter for structural topology optimization with chamfering, rounding, and checkerboard-free patterns. <i>Structural and Multidisciplinary Optimization</i> , 2009, 37, 529-540.	1.7	11
170	On the placement of open-loop robotic manipulators for reachability. <i>Mechanism and Machine Theory</i> , 2009, 44, 671-684.	2.7	28
171	Determining the three-dimensional relation between the skeletal elements of the human shoulder complex. <i>Journal of Biomechanics</i> , 2009, 42, 1762-1767.	0.9	13
172	Simulating the Interaction between a Respirator and a Headform Using LS-DYNA. <i>Computer-Aided Design and Applications</i> , 2009, 6, 539-551.	0.4	20
173	Use of multi-objective optimization for digital human posture prediction. <i>Engineering Optimization</i> , 2009, 41, 925-943.	1.5	44
174	Multi-objective optimisation approach for predicting seated posture considering balance. <i>International Journal of Vehicle Design</i> , 2009, 51, 278.	0.1	12
175	A physics-based digital human model. <i>International Journal of Vehicle Design</i> , 2009, 51, 324.	0.1	14
176	Human Head Modeling and Personal Head Protective Equipment: A Literature Review. <i>Lecture Notes in Computer Science</i> , 2009, , 661-670.	1.0	2
177	TWO-LINK FLEXIBLE MANIPULATOR MODELLING AND TIP TRAJECTORY TRACKING BASED ON THE ABSOLUTE NODAL COORDINATE METHOD. <i>International Journal of Robotics and Automation</i> , 2009, 24, .	0.1	7
178	GENERATING EFFECTIVE WHOLE-BODY MOTIONS OF A HUMAN-LIKE MECHANISM WITH EFFICIENT ZMP FORMULATION. <i>International Journal of Robotics and Automation</i> , 2009, 24, .	0.1	11
179	A general analytic approach for Santos's upper extremity workspace. <i>Computers and Industrial Engineering</i> , 2008, 54, 242-258.	3.4	10
180	A novel formulation for determining joint constraint loads during optimal dynamic motion of redundant manipulators in DH representation. <i>Multibody System Dynamics</i> , 2008, 19, 427-451.	1.7	24

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181	On the workspace boundary determination of serial manipulators with non-unilateral constraints. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008, 24, 60-76.	6.1	29
182	Workspace zone differentiation and visualization for virtual humans. <i>Ergonomics</i> , 2008, 51, 395-413.	1.1	8
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