Tien-Tuan Dao

List of Publications by Year
in descending order

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80	614	758635	752256
papers	citations	12	20
		h-index	g-index

91	91	91	518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computer-aided parametric prosthetic socket design based on real-time soft tissue deformation and an inverse approach. Visual Computer, 2022, 38, 919-937.	2.5	7
2	Enhanced head-skull shape learning using statistical modeling and topological features. Medical and Biological Engineering and Computing, 2022, 60, 559-581.	1.6	1
3	HyperMSM: A new MSM variant for efficient simulation of dynamic soft-tissue deformations. Computer Methods and Programs in Biomedicine, 2022, 216, 106659.	2.6	9
4	Global Analysis of Three-Dimensional Shape Symmetry: Human Heads (Part I). , 2022, , 27-35.		1
5	Recurrent neural network to predict hyperelastic constitutive behaviors of the skeletal muscle. Medical and Biological Engineering and Computing, 2022, 60, 1177-1185.	1.6	6
6	Deep reinforcement learning coupled with musculoskeletal modelling for a better understanding of elderly falls. Medical and Biological Engineering and Computing, 2022, 60, 1745-1761.	1.6	4
7	Reinforcement learning coupled with finite element modeling for facial motion learning. Computer Methods and Programs in Biomedicine, 2022, 221, 106904.	2.6	6
8	A Deep Learning Approach for Predicting Subject-Specific Human Skull Shape from Head Toward a Decision Support System for Home-Based Facial Rehabilitation. Irbm, 2022, , .	3.7	1
9	Kinect-driven Patient-specific Head, Skull, and Muscle Network Modelling for Facial Palsy Patients. Computer Methods and Programs in Biomedicine, 2021, 200, 105846.	2.6	11
10	GAMEREHAB@HOME: A New Engineering System Using Serious Game and Multisensor Fusion for Functional Rehabilitation at Home. IEEE Transactions on Games, 2021, 13, 89-98.	1.2	8
11	Human locomotion with reinforcement learning using bioinspired reward reshaping strategies. Medical and Biological Engineering and Computing, 2021, 59, 243-256.	1.6	9
12	An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50.	2.7	9
13	Crack Propagation in the Tibia Bone within Total Knee Replacement Using the eXtended Finite Element Method. Applied Sciences (Switzerland), 2021, 11, 4435.	1.3	1
14	Enhanced facial expression recognition using 3D point sets and geometric deep learning. Medical and Biological Engineering and Computing, 2021, 59, 1235-1244.	1.6	7
15	Visual Sensor Fusion With Error Compensation Strategy Toward a Rapid and Low-Cost 3D Scanning System for the Lower Residual Limb. IEEE Sensors Journal, 2020, 20, 15043-15052.	2.4	3
16	A statistical shape modeling approach for predicting subject-specific human skull from head surface. Medical and Biological Engineering and Computing, 2020, 58, 2355-2373.	1.6	8
17	A Systematic Review of Real-Time Medical Simulations with Soft-Tissue Deformation: Computational Approaches, Interaction Devices, System Architectures, and Clinical Validations. Applied Bionics and Biomechanics, 2020, 2020, 1-30.	0.5	18
18	Fast Soft Tissue Deformation and Stump-Socket Interaction Toward a Computer-Aided Design System for Lower Limb Prostheses. Irbm, 2020, 41, 276-285.	3.7	12

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19	Real-time computer vision system for tracking simultaneously subject-specific rigid head and non-rigid facial mimic movements using a contactless sensor and system of systems approach. Computer Methods and Programs in Biomedicine, 2020, 191, 105410.	2.6	13
20	Real-time Subject-specific Head and Facial Mimic Animation System using a Contactless Kinect Sensor and System of Systems Approach*. , 2019, 2019, 6132-6135.		2
21	Knowledge Extraction From Medical Imaging for Advanced Patient-Specific Musculoskeletal Models. , 2019, , 135-142.		0
22	Upper Limb Musculoskeletal Modeling for Human-Exoskeleton Interaction. , 2019, , .		4
23	From deep learning to transfer learning for the prediction of skeletal muscle forces. Medical and Biological Engineering and Computing, 2019, 57, 1049-1058.	1.6	46
24	A Method for Uncertainty Elicitation of Experts Using Belief Function. Studies in Computational Intelligence, 2018, , 39-49.	0.7	0
25	IMAGE-BASED SKELETAL MUSCLE COORDINATION: CASE STUDY ON A SUBJECT SPECIFIC FACIAL MIMIC SIMULATION. Journal of Mechanics in Medicine and Biology, 2018, 18, 1850020.	0.3	13
26	Material-driven mesh of the lumbar spine derived from CT data. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 128-136.	1.3	1
27	A Systematic Review of Continuum Modeling of Skeletal Muscles: Current Trends, Limitations, and Recommendations. Applied Bionics and Biomechanics, 2018, 2018, 1-17.	0.5	27
28	Serious Games for Home Based Rehabilitation: Inertial Sensor Energy Consumption. Irbm, 2018, 39, 440-444.	3.7	2
29	Cognitive and functional rehabilitation using serious games and a system of systems approach. , 2018, , .		2
30	Hybrid Rigid-Deformable Model for Prediction of Neighboring Intervertebral Disk Loads During Flexion Movement After Lumbar Interbody Fusion at L3â€“4 Level. Journal of Biomechanical Engineering, 2017, 139, .	0.6	2
31	MRI-based finite element modeling of facial mimics: a case study on the paired zygomaticus major muscles. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 919-928.	0.9	18
32	A CONSISTENT DATA FUSION APPROACH FOR UNCERTAINTY QUANTIFICATION IN RIGID MUSCULOSKELETAL SIMULATION. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750062.	0.3	3
33	Multimodal Medical Imaging Fusion for Patient Specific Musculoskeletal Modeling of the Lumbar Spine System in Functional Posture. Journal of Medical and Biological Engineering, 2017, 37, 739-749.	1.0	8
34	Advanced computational workflow for the multi-scale modeling of the bone metabolic processes. Medical and Biological Engineering and Computing, 2017, 55, 923-933.	1.6	6
35	Rehabilitation-Oriented Serious Game Development and Evaluation Guidelines for Musculoskeletal Disorders. JMIR Serious Games, 2017, 5, e14.	1.7	17
36	Expert Opinion Extraction from a Biomedical Database. Lecture Notes in Computer Science, 2017, , 135-145.	1.0	2

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37	A New Multi-Sensor Fusion Scheme to Improve the Accuracy of Knee Flexion Kinematics for Functional Rehabilitation Movements. Sensors, 2016, 16, 1914.	2.1	43
38	Argumentation Framework Based on Evidence Theory. Communications in Computer and Information Science, 2016, , 253-264.	0.4	2
39	RIGID MUSCULOSKELETAL MODELS OF THE HUMAN BODY SYSTEMS: A REVIEW. Journal of Musculoskeletal Research, 2016, 19, 1630001.	0.1	9
40	Bounded Support and Confidence over Evidential Databases. Procedia Computer Science, 2016, 80, 1822-1833.	1.2	2
41	Feasibility study of a serious game based on Kinect system for functional rehabilitation of the lower limbs. European Research in Telemedicine, 2016, 5, 97-104.	0.6	9
42	Enhanced Musculoskeletal Modeling for Prediction of Intervertebral Disc Stress Within Annulus Fibrosus and Nucleus Pulposus Regions During Flexion Movement. Journal of Medical and Biological Engineering, 2016, 36, 583-593.	1.0	6
43	Exploring various orientation measurement approaches applied to a serious game system for functional rehabilitation. , 2016, 2016, 1987-1990.		1
44	Serious game and functional rehabilitation for the lower limbs. European Research in Telemedicine, 2016, 5, 65-69.	0.6	12
45	Predictive Model Based on the Evidence Theory for Assessing Critical Micelle Concentration Property. Communications in Computer and Information Science, 2016, , 510-522.	0.4	3
46	Interactive and Connected Rehabilitation Systems for E-Health. Irbm, 2016, 37, 289-296.	3.7	19
47	Clustering of Children with Cerebral Palsy with Prior Biomechanical Knowledge Fused from Multiple Data Sources. Lecture Notes in Computer Science, 2016, , 359-370.	1.0	2
48	A robust protocol for the creation of patient-specific finite element models of the musculoskeletal system from medical imaging data. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2015, 3, 136-146.	1.3	7
49	On the Relative Relevance of Subject-Specific Geometries and Degeneration-Specific Mechanical Properties for the Study of Cell Death in Human Intervertebral Disk Models. Frontiers in Bioengineering and Biotechnology, 2015, 3, 5.	2.0	26
50	A Hertzian Integrated Contact Model of the Total Knee Replacement Implant for the Estimation of Joint Contact Forces. Journal of Computational Medicine, 2015, 2015, 1-9.	0.3	3
51	Musculoskeletal Simulation for Assessment of Effect of Movement-Based Structure-Modifying Treatment Strategies. Journal of Computational Medicine, 2015, 2015, 1-12.	0.3	7
52	Mining over a Reliable Evidential Database: Application on Amphiphilic Chemical Database. , 2015, , .		2
53	Serious game for functional rehabilitation. , 2015, , .		7
54	ASSESSMENT OF PARAMETER UNCERTAINTY IN RIGID MUSCULOSKELETAL SIMULATION USING A PROBABILISTIC APPROACH. Journal of Musculoskeletal Research, 2015, 18, 1550013.	0.1	9

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55	Multimodal medical imaging (CT and dynamic MRI) data and computer-graphics multi-physical model for the estimation of patient specific lumbar spine muscle forces. Data and Knowledge Engineering, 2015, 96-97, 3-18.	2.1	22
56	Real-Time Rehabilitation System of Systems for Monitoring the Biomechanical Feedbacks of the Musculoskeletal System. Advances in Intelligent Systems and Computing, 2015, , 553-565.	0.5	6
57	Subject Specific Modeling of the Muscle Activation: Application to the Facial Mimics. Advances in Intelligent Systems and Computing, 2014, , 423-433.	0.5	0
58	Analysis of shear wave propagation derived from MR elastography in 3D thigh skeletal muscle using subject specific finite element model. , 2014, 2014, 4026-9.		4
59	In vivo assessment of nervous fiber distribution in the intervertebral disc. , 2014, 2014, 2364-7.		0
60	Estimation of Patient Specific Lumbar Spine Muscle Forces Using Multi-physical Musculoskeletal Model and Dynamic MRI. Advances in Intelligent Systems and Computing, 2014, , 411-422.	0.5	4
61	Knowledge-based personalized search engine for the Web-based Human Musculoskeletal System Resources (HMSR) in biomechanics. Journal of Biomedical Informatics, 2013, 46, 160-173.	2.5	14
62	ESTIMATION OF MUSCLE FORCE DERIVED FROM IN VIVO MR ELASTOGRAPHY TESTS: A PRELIMINARY STUDY. Journal of Musculoskeletal Research, 2013, 16, 1350015.	0.1	6
63	Quantitative analysis of annulus fibrosus and nucleus pulposus derived from T2 mapping, diffusion-weighted and diffusion tensor MR imaging. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 138-146.	1.3	9
64	Uncertainty modeling of input data for a biomechanical system of systems. , 2013, 2013, 4581-4.		1
65	Facial Mimics Simulation using MRI and Finite Element Analysis. , 2013, 2013, 4585-8.		1
66	CALCULATION OF IN VIVO MUSCLE FORCES DERIVED FROM MR ELASTOGRAPHY. Journal of Biomechanics, 2012, 45, S489.	0.9	1
67	A NON INVASIVE PROTOCOL FOR THE ESTIMATION OF 3D LUMBAR SPINE SHAPE IN STANDING POSITION. Journal of Biomechanics, 2012, 45, S598.	0.9	1
68	Estimation of accuracy of patient-specific musculoskeletal modelling: case study on a post polio residual paralysis subject. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 745-751.	0.9	43
69	In vivo characterization of morphological properties and contact areas of the rat cartilage derived from high-resolution MRI. Irbm, 2011, 32, 204-213.	3.7	5
70	Computer-Aided Decision System for the Clubfeet Deformities. Advances in Experimental Medicine and Biology, 2011, 696, 623-635.	0.8	11
71	Knowledge-Based System for Orthopedic Pediatric Disorders. IFMBE Proceedings, 2011, , 125-128.	0.2	2
72	Computer-aided decision system for the clubfeet deformities. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 89-90.	0.9	0

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73	Sensitivity of the anthropometrical and geometrical parameters of the bones and muscles on a musculoskeletal model of the lower limbs. , 2009, 2009, 5251-4.		0
74	Clinical validated computer-aided decision system to the clubfeet deformities. , 2009, 2009, 6230-3.		3
75	Influence of anthropometrical and geometrical parameters of the bones and muscles on musculoskeletal model of the lower limbs. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 91-92.	0.9	3
76	Ontology-based Computer-Aided Decision System: a new architecture and application concerning the musculoskeletal system of the lower limbs. IFMBE Proceedings, 2009, , 1540-1543.	0.2	0
77	Predictive Mathematical Models based on Data Mining Methods of the Pathologies of the Lower Limbs. IFMBE Proceedings, 2009, , 1803-1807.	0.2	1
78	Computer-aided decision system to diagnose pathologies concerning the musculo-skeletal system of the lower limbs. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 73-74.	0.9	2
79	Ontology of the musculo-skeletal system of the lower limbs. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 386-9.	0.5	7
80	Contribution aux bonnes pratiques en recherche biomÃ©dicale : acteurs et processus de publication. IRBM News, 2007, 28, 1-6.	0.1	0