

Dimitar Stanev

List of Publications by Year in descending order

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36
papers

464
citations

759233

12
h-index

839539

18
g-index

39
all docs

39
docs citations

39
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Tools for Long-Term Type 2 Diabetes Risk Prediction. IEEE Access, 2021, 9, 103737-103757.	4.2	50
2	Feature Preserving Mesh Denoising Based on Graph Spectral Processing. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1513-1527.	4.4	29
3	Real-Time Prediction of Joint Forces by Motion Capture and Machine Learning. Sensors, 2020, 20, 6933.	3.8	28
4	Modeling musculoskeletal kinematic and dynamic redundancy using null space projection. PLoS ONE, 2019, 14, e0209171.	2.5	27
5	A Review on Finite Element Modeling and Simulation of the Anterior Cruciate Ligament Reconstruction. Frontiers in Bioengineering and Biotechnology, 2020, 8, 967.	4.1	25
6	Simulation of Constrained Musculoskeletal Systems in Task Space. IEEE Transactions on Biomedical Engineering, 2017, 65, 1-1.	4.2	23
7	ACL Reconstruction Decision Support. Methods of Information in Medicine, 2016, 55, 98-105.	1.2	18
8	Stiffness modulation of redundant musculoskeletal systems. Journal of Biomechanics, 2019, 85, 101-107.	2.1	17
9	Towards Artificial-Intelligence-Based Cybersecurity for Robustifying Automated Driving Systems Against Camera Sensor Attacks. , 2020, , .		16
10	Total Knee Replacement: Subject-Specific Modeling, Finite Element Analysis, and Evaluation of Dynamic Activities. Frontiers in Bioengineering and Biotechnology, 2021, 9, 648356.	4.1	16
11	Sensory modulation of gait characteristics in human locomotion: A neuromusculoskeletal modeling study. PLoS Computational Biology, 2021, 17, e1008594.	3.2	16
12	Countering Adversarial Attacks on Autonomous Vehicles Using Denoising Techniques: A Review. IEEE Open Journal of Intelligent Transportation Systems, 2022, 3, 61-80.	4.8	16
13	Personalized Knee Geometry Modeling Based on Multi-Atlas Segmentation and Mesh Refinement. IEEE Access, 2020, 8, 56766-56781.	4.2	15
14	Automatic action recognition for assistive robots to support MCI patients at home. , 2017, , .		14
15	CARAMEL: results on a secure architecture for connected and autonomous vehicles detecting GPS spoofing attacks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, , .	2.4	14
16	Fast Mesh Denoising With Data Driven Normal Filtering Using Deep Variational Autoencoders. IEEE Transactions on Industrial Informatics, 2021, 17, 980-990.	11.3	13
17	Real-Time Musculoskeletal Kinematics and Dynamics Analysis Using Marker- and IMU-Based Solutions in Rehabilitation. Sensors, 2021, 21, 1804.	3.8	12
18	FrailSafe: An ICT Platform for Unobtrusive Sensing of Multi-Domain Frailty for Personalized Interventions. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1557-1568.	6.3	11

#	ARTICLE	IF	CITATIONS
19	SmartWork. , 2019, , .		10
20	Signal Processing on Static and Dynamic 3D Meshes: Sparse Representations and Applications. IEEE Access, 2019, 7, 15779-15803.	4.2	10
21	Investigation of neural and biomechanical impairments leading to pathological toe and heel gaits using neuromusculoskeletal modelling. Journal of Physiology, 2022, 600, 2691-2712.	2.9	10
22	Saliency Mapping for Processing 3D Meshes in Industrial Modeling Applications. , 2019, , .		9
23	Broad-to-Narrow Registration and Identification of 3D Objects in Partially Scanned and Cluttered Point Clouds. IEEE Transactions on Multimedia, 2022, 24, 2230-2245.	7.2	8
24	Distributed Consolidation of Highly Incomplete Dynamic Point Clouds Based on Rank Minimization. IEEE Transactions on Multimedia, 2018, 20, 3276-3288.	7.2	7
25	Evaluation of anterior cruciate ligament surgical reconstruction through finite element analysis. Scientific Reports, 2022, 12, 8044.	3.3	7
26	Simulation and Visual Analysis of Neuromusculoskeletal Models and Data. IFIP Advances in Information and Communication Technology, 2015, , 411-420.	0.7	6
27	Robust and Fast 3-D Saliency Mapping for Industrial Modeling Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 1307-1317.	11.3	6
28	Early malfunction diagnosis of industrial process units utilizing online linear trend profiles and real-time classification. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1313-1325.	4.1	5
29	XRSISE: An XR Training System for Interactive Simulation and Ergonomics Assessment. Frontiers in Virtual Reality, 2021, 2, .	3.7	5
30	Fast mesh denoising with data driven normal filtering using deep autoencoders. , 2019, , .		4
31	Virtual Human Behavioural Profile Extraction Using Kinect Based Motion Tracking. , 2014, , .		3
32	Denoising of dynamic 3D meshes via low-rank spectral analysis. Computers and Graphics, 2019, 82, 140-151.	2.5	3
33	3-Class Prediction of Asthma Control Status Using a Gaussian Mixture Model Approach. , 2018, , .		2
34	Spectral Processing for Denoising and Compression of 3D Meshes Using Dynamic Orthogonal Iterations. Journal of Imaging, 2020, 6, 55.	3.0	2
35	Regularized multi-structural shape modeling of the knee complex based on deep functional maps. Computerized Medical Imaging and Graphics, 2021, 89, 101890.	5.8	2
36	The Role of Modularity in Multimodal Simultaneous Localization and Mapping Systems. Computer, 2021, 54, 63-67.	1.1	1