

Dimitar Stanev

List of Publications by Year in descending order

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39
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358
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Evaluation of anterior cruciate ligament surgical reconstruction through finite element analysis. Scientific Reports, 2022, 12, 8044.	3.3	7
5	Fast Mesh Denoising With Data Driven Normal Filtering Using Deep Variational Autoencoders. IEEE Transactions on Industrial Informatics, 2021, 17, 980-990.	11.3	13
6	Robust and Fast 3-D Saliency Mapping for Industrial Modeling Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 1307-1317.	11.3	6
7	Machine Learning Tools for Long-Term Type 2 Diabetes Risk Prediction. IEEE Access, 2021, 9, 103737-103757.	4.2	50
8	The Role of Modularity in Multimodal Simultaneous Localization and Mapping Systems. Computer, 2021, 54, 63-67.	1.1	1
9	Real-Time Musculoskeletal Kinematics and Dynamics Analysis Using Marker- and IMU-Based Solutions in Rehabilitation. Sensors, 2021, 21, 1804.	3.8	12
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	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
12	XRSISE: An XR Training System for Interactive Simulation and Ergonomics Assessment. Frontiers in Virtual Reality, 2021, 2, .	3.7	5
13	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
14	Sensory modulation of gait characteristics in human locomotion: A neuromusculoskeletal modeling study. PLoS Computational Biology, 2021, 17, e1008594.	3.2	16
15	Towards Artificial-Intelligence-Based Cybersecurity for Robustifying Automated Driving Systems Against Camera Sensor Attacks. , 2020, , .		16
16	Spectral Processing for Denoising and Compression of 3D Meshes Using Dynamic Orthogonal Iterations. Journal of Imaging, 2020, 6, 55.	3.0	2
17	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
18	Real-Time Prediction of Joint Forces by Motion Capture and Machine Learning. Sensors, 2020, 20, 6933.	3.8	28

#	ARTICLE	IF	CITATIONS
19	Personalized Knee Geometry Modeling Based on Multi-Atlas Segmentation and Mesh Refinement. IEEE Access, 2020, 8, 56766-56781.	4.2	15
20	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
21	SmartWork. , 2019, , .		10
22	Signal Processing on Static and Dynamic 3D Meshes: Sparse Representations and Applications. IEEE Access, 2019, 7, 15779-15803.	4.2	10
23	Stiffness modulation of redundant musculoskeletal systems. Journal of Biomechanics, 2019, 85, 101-107.	2.1	17
24	Denoising of dynamic 3D meshes via low-rank spectral analysis. Computers and Graphics, 2019, 82, 140-151.	2.5	3
25	Saliency Mapping for Processing 3D Meshes in Industrial Modeling Applications. , 2019, , .		9
26	Fast mesh denoising with data driven normal filtering using deep autoencoders. , 2019, , .		4
27	Modeling musculoskeletal kinematic and dynamic redundancy using null space projection. PLoS ONE, 2019, 14, e0209171.	2.5	27
28	Feature Preserving Mesh Denoising Based on Graph Spectral Processing. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1513-1527.	4.4	29
29	3-Class Prediction of Asthma Control Status Using a Gaussian Mixture Model Approach. , 2018, , .		2
30	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
31	Distributed Consolidation of Highly Incomplete Dynamic Point Clouds Based on Rank Minimization. IEEE Transactions on Multimedia, 2018, 20, 3276-3288.	7.2	7
32	Simulation of Constrained Musculoskeletal Systems in Task Space. IEEE Transactions on Biomedical Engineering, 2017, 65, 1-1.	4.2	23
33	Automatic action recognition for assistive robots to support MCI patients at home. , 2017, , .		14
34	ACL Reconstruction Decision Support. Methods of Information in Medicine, 2016, 55, 98-105.	1.2	18
35	Simulation and Visual Analysis of Neuromusculoskeletal Models and Data. IFIP Advances in Information and Communication Technology, 2015, , 411-420.	0.7	6
36	Virtual Human Behavioural Profile Extraction Using Kinect Based Motion Tracking. , 2014, , .		3