

# Konstantinos Moustakas

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

629  
citations

758635

12  
h-index

839053

18  
g-index

89  
all docs

89  
docs citations

89  
times ranked

455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectiveness of myAirCoach: A mHealth Self-Management System in Asthma. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 1972-1979.e8.	2.0	42
2	Feature Preserving Mesh Denoising Based on Graph Spectral Processing. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1513-1527.	2.9	29
3	Real-Time Prediction of Joint Forces by Motion Capture and Machine Learning. Sensors, 2020, 20, 6933.	2.1	28
4	Modeling musculoskeletal kinematic and dynamic redundancy using null space projection. PLoS ONE, 2019, 14, e0209171.	1.1	27
5	A Review on Finite Element Modeling and Simulation of the Anterior Cruciate Ligament Reconstruction. Frontiers in Bioengineering and Biotechnology, 2020, 8, 967.	2.0	25
6	ACL Reconstruction Decision Support. Methods of Information in Medicine, 2016, 55, 98-105.	0.7	18
7	An mHealth System for Monitoring Medication Adherence in Obstructive Respiratory Diseases Using Content Based Audio Classification. IEEE Access, 2018, 6, 11871-11882.	2.6	18
8	Exploiting Gamification to Improve Eco-driving Behaviour: The GameCAR Approach. Electronic Notes in Theoretical Computer Science, 2019, 343, 103-116.	0.9	18
9	Cardiovascular Disease Risk Prediction with Supervised Machine Learning Techniques. , 2022, , .		18
10	Stiffness modulation of redundant musculoskeletal systems. Journal of Biomechanics, 2019, 85, 101-107.	0.9	17
11	Compressed Sensing for Efficient Encoding of Dense 3D Meshes Using Model-Based Bayesian Learning. IEEE Transactions on Multimedia, 2017, 19, 41-53.	5.2	16
12	Total Knee Replacement: Subject-Specific Modeling, Finite Element Analysis, and Evaluation of Dynamic Activities. Frontiers in Bioengineering and Biotechnology, 2021, 9, 648356.	2.0	16
13	Short-term Glucose Prediction based on Oral Glucose Tolerance Test Values. , 2022, , .		14
14	Adaptive compression of animated meshes by exploiting orthogonal iterations. Visual Computer, 2017, 33, 811-821.	2.5	13
15	Fast Mesh Denoising With Data Driven Normal Filtering Using Deep Variational Autoencoders. IEEE Transactions on Industrial Informatics, 2021, 17, 980-990.	7.2	13
16	Feature Aware 3D Mesh Compression Using Robust Principal Component Analysis. , 2018, , .		12
17	A Saliency Aware CNN-Based 3D Model Simplification and Compression Framework for Remote Inspection of Heritage Sites. IEEE Access, 2020, 8, 169982-170001.	2.6	12
18	Real-Time Musculoskeletal Kinematics and Dynamics Analysis Using Marker- and IMU-Based Solutions in Rehabilitation. Sensors, 2021, 21, 1804.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Long-term Cholesterol Risk Prediction using Machine Learning Techniques in ELSA Database. , 2021, , .		12
20	Immersive Virtual Reality Experience of Historical Events Using Haptics and Locomotion Simulation. Applied Sciences (Switzerland), 2021, 11, 11613.	1.3	11
21	Border gateway protocol graph: detecting and visualising internet routing anomalies. IET Information Security, 2016, 10, 125-133.	1.1	10
22	Signal Processing on Static and Dynamic 3D Meshes: Sparse Representations and Applications. IEEE Access, 2019, 7, 15779-15803.	2.6	10
23	An Interactive Augmented Reality Chess Game Using Bare-Hand Pinch Gestures. , 2015, , .		9
24	Assessing machine learning algorithms for self-management of asthma. , 2017, , .		9
25	Saliency Mapping for Processing 3D Meshes in Industrial Modeling Applications. , 2019, , .		9
26	Mesh Saliency Detection Using Convolutional Neural Networks. , 2020, , .		9
27	Integrating Brain and Biomechanical Models – A New Paradigm for Understanding Neuro-muscular Control. Frontiers in Neuroscience, 2018, 12, 39.	1.4	8
28	Broad-to-Narrow Registration and Identification of 3D Objects in Partially Scanned and Cluttered Point Clouds. IEEE Transactions on Multimedia, 2022, 24, 2230-2245.	5.2	8
29	COPD Severity Prediction in Elderly with ML Techniques. , 2022, , .		8
30	Monitoring asthma medication adherence through content based audio classification. , 2016, , .		7
31	6DoF haptic rendering using distance maps over implicit representations. Multimedia Tools and Applications, 2016, 75, 4543-4557.	2.6	7
32	Uncertainty Management for Wearable IoT Wristband Sensors Using Laplacian-Based Matrix Completion. , 2018, , .		7
33	Recognition of Breathing Activity and Medication Adherence using LSTM Neural Networks. , 2019, , .		7
34	Deep CNN Sparse Coding for Real Time Inhaler Sounds Classification. Sensors, 2020, 20, 2363.	2.1	7
35	AVATREE: An open-source computational modelling framework modelling Anatomically Valid Airway TREE conformations. PLoS ONE, 2020, 15, e0230259.	1.1	7
36	CNN-based stress and emotion recognition in ambulatory settings. , 2021, , .		7

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37	Laser fabrication and evaluation of holographic intrinsic physical unclonable functions. Scientific Reports, 2022, 12, 2891.	1.6	7
38	Evaluation of anterior cruciate ligament surgical reconstruction through finite element analysis. Scientific Reports, 2022, 12, 8044.	1.6	7
39	Robust and Fast 3-D Saliency Mapping for Industrial Modeling Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 1307-1317.	7.2	6
40	Landing Site Detection for Autonomous Rotor Wing UAVs Using Visual and Structural Information. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	2.0	6
41	Systematic Error Analysis for the Enhancement of Biometric Systems Using Soft Biometrics. IEEE Signal Processing Letters, 2012, 19, 833-836.	2.1	5
42	BGPViewer: Using Graph representations to explore BGP routing changes. , 2013, , .		5
43	Energy efficient telemonitoring of wheezes. , 2015, , .		5
44	Energy Efficient Monitoring of Metered Dose Inhaler Usage. Journal of Medical Systems, 2016, 40, 285.	2.2	5
45	Outliers Removal of Highly Dense and Unorganized Point Clouds Acquired by Laser Scanners in Urban Environments. , 2018, , .		5
46	Outliers Removal and Consolidation of DYNAMIC Point Cloud. , 2018, , .		5
47	Adaptive representation of dynamic 3D meshes for low-latency applications. Computer Aided Geometric Design, 2019, 73, 70-85.	0.5	5
48	Sparse coding of dense 3D meshes in mobile cloud applications. , 2015, , .		4
49	Weighted regularized laplacian interpolation for consolidation of highly-incomplete time varying point clouds. , 2017, , .		4
50	Fast mesh denoising with data driven normal filtering using deep autoencoders. , 2019, , .		4
51	Virtual Human Behavioural Profile Extraction Using Kinect Based Motion Tracking. , 2014, , .		3
52	Substance deposition assessment in obstructed pulmonary system through numerical characterization of airflow and inhaled particles attributes. BMC Medical Informatics and Decision Making, 2017, 17, 173.	1.5	3
53	3D Mesh Inpainting Using Matrix Completion via Augmented Lagrange Multiplier Method. , 2018, , .		3
54	Feature-Aware and Content-wise Denoising of 3D Static and Dynamic Meshes using Deep Autoencoders. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	Denoising of dynamic 3D meshes via low-rank spectral analysis. Computers and Graphics, 2019, 82, 140-151.	1.4	3
56	Image-Based 3D MESH Denoising Through A Block Matching 3D Convolutional Neural Network Filtering Approach. , 2020, , .		3
57	Large-scale ray traced water caustics in real-time using cascaded caustic maps. Computers and Graphics, 2021, 98, 255-267.	1.4	3
58	3D Augmented Reality Tangible User Interface using Commodity Hardware. , 2020, , .		3
59	Machine learning based analysis of stroke lesions on mouse tissue sections. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1463-1477.	2.4	3
60	Fast Spatio-temporal Compression of Dynamic 3D Meshes. , 2021, , .		3
61	A building performance evaluation & visualization system. , 2014, , .		2
62	A User-Perspective View for Mobile AR Systems Using Discrete Depth Segmentation. , 2015, , .		2
63	Sparse modeling and optimization tools for energy efficient and reliable IoT. , 2019, , .		2
64	Spectral Processing for Denoising and Compression of 3D Meshes Using Dynamic Orthogonal Iterations. Journal of Imaging, 2020, 6, 55.	1.7	2
65	Biophysics-based simulation of virtual human model interactions in 3D virtual scenes. , 2020, , .		2
66	cMinMax: A Fast Algorithm to Find the Corners of an N-dimensional Convex Polytope. , 2021, , .		2
67	Regularized multi-structural shape modeling of the knee complex based on deep functional maps. Computerized Medical Imaging and Graphics, 2021, 89, 101890.	3.5	2
68	Haptic media from an information-theoretic perspective. , 2013, , .		1
69	A Framework for 3D Object Segmentation and Retrieval Using Local Geometric Surface Features. , 2018, , .		1
70	Design of a vision substitution vibrotactile vest for the visually impaired. , 2018, , .		1
71	Energy Efficient Transmission of 3D Meshes Over MMWave-Based Massive MIMO Systems. , 2019, , .		1
72	Coping with missing data in an unobtrusive monitoring system for office workers. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Enhancing an Eco-Driving Gamification Platform Through Wearable and Vehicle Sensor Data Integration. Lecture Notes in Computer Science, 2019, , 344-349.	1.0	1
74	Another day at the Office: Visuohaptic schizophrenia VR simulation. , 2020, , .		1
75	An information-theoretic treatment of passive haptic media. Multimedia Tools and Applications, 2017, 76, 6189-6208.	2.6	0
76	Fluid-structure interaction simulation framework for cerebral aneurysm wall deformation. , 2019, , .		0
77	A Data Quality Assessment Approach in the SmartWork Projectâ€™s Time-series Data Imputation Paradigm. , 2021, , .		0
78	Title is missing!. , 2020, 15, e0230259.		0
79	Title is missing!. , 2020, 15, e0230259.		0
80	Title is missing!. , 2020, 15, e0230259.		0
81	Title is missing!. , 2020, 15, e0230259.		0
82	Title is missing!. , 2020, 15, e0230259.		0
83	Title is missing!. , 2020, 15, e0230259.		0
84	Proportional Myoelectric Control in a Virtual Reality Environment. , 2022, , .		0
85	Joint Power and Contrast Shrinking in RGB Images with Exponential Smoothing. , 2022, , .		0