

Marta A Kersten

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,022
citations

623734

14
h-index

434195

31
g-index

46
all docs

46
docs citations

46
times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel prototype for virtual-reality-based deep brain stimulation trajectory planning using voodoo doll annotation and eye-tracking. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2022, 10, 418-424.	1.9	5
2	The Effect of Interactive Cues on the Perception of Angiographic Volumes in Virtual Reality. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2022, 10, 357-365.	1.9	3
3	A prototype 3D modelling and visualisation pipeline for improved decision-making in breast reconstruction surgery. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2022, 10, 313-320.	1.9	1
4	An Online Balance Training Application using Pose Estimation and Augmented Reality. , 2022, , .		0
5	Multiple sclerosis image-guided subcutaneous injections using augmented reality guided imagery. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 370-375.	1.9	1
6	Special issue on 2020 augmented environments for computer-assisted interventions (AE-CAI): guest editors's foreword. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 217-218.	1.9	0
7	EyeTAP: Introducing a multimodal gaze-based technique using voice inputs with a comparative analysis of selection techniques. <i>International Journal of Human Computer Studies</i> , 2021, 154, 102676.	5.6	9
8	IDEA: Index of Difficulty for Eye Tracking Applications - An Analysis Model for Target Selection Tasks. , 2021, , .		0
9	Multimodal Cueing in Gamified Physiotherapy: A Preliminary Study. , 2021, , .		0
10	Multimodal Cueing in Gamified Physiotherapy: A Preliminary Study. , 2021, , .		1
11	Interaction Driven Enhancement of Depth Perception in Angiographic Volumes. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020, 26, 2247-2257.	4.4	5
12	Automatic collateral circulation scoring in ischemic stroke using 4D CT angiography with low-rank and sparse matrix decomposition. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1501-1511.	2.8	13
13	MARIN: an open-source mobile augmented reality interactive neuronavigation system. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 1013-1021.	2.8	22
14	Brain Shift in Neuronavigation of Brain Tumors: An Updated Review of Intra-Operative Ultrasound Applications. <i>Frontiers in Oncology</i> , 2020, 10, 618837.	2.8	36
15	Cognitive load associations when utilizing auditory display within image-guided neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1431-1438.	2.8	5
16	Evaluation of "The Seafarers": A serious game on seaborne trade in the Mediterranean sea during the Classical period. <i>Digital Applications in Archaeology and Cultural Heritage</i> , 2019, 12, e00090.	1.3	3
17	Augmented reality mastectomy surgical planning prototype using the HoloLens template for healthcare technology letters. <i>Healthcare Technology Letters</i> , 2019, 6, 261-265.	3.3	11
18	An augmented-reality system prototype for guiding transcranial Doppler ultrasound examination. <i>Multimedia Tools and Applications</i> , 2018, 77, 27789-27805.	3.9	5

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19	A Survey on the Affordances of "Hearables" Inventions, 2018, 3, 48.	2.5	16
20	Guest Editorial: Papers from the 12th Workshop on Augmented Environments for Computer-Assisted Interventions. Healthcare Technology Letters, 2018, 5, 136-136.	3.3	0
21	Gesture-based registration correction using a mobile augmented reality image-guided neurosurgery system. Healthcare Technology Letters, 2018, 5, 137-142.	3.3	11
22	Combining intraoperative ultrasound brain shift correction and augmented reality visualizations: a pilot study of eight cases. Journal of Medical Imaging, 2018, 5, 1.	1.5	27
23	Towards Automatic Collateral Circulation Score Evaluation in Ischemic Stroke Using Image Decompositions and Support Vector Machines. Lecture Notes in Computer Science, 2017, , 158-167.	1.3	7
24	Brain shift in neuronavigation of brain tumors: A review. Medical Image Analysis, 2017, 35, 403-420.	11.6	214
25	IBIS: an OR ready open-source platform for image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 363-378.	2.8	74
26	Quantifying attention shifts in augmented reality image-guided neurosurgery. Healthcare Technology Letters, 2017, 4, 188-192.	3.3	72
27	Distance sonification in image-guided neurosurgery. Healthcare Technology Letters, 2017, 4, 199-203.	3.3	6
28	Guest Editors' Foreword. Healthcare Technology Letters, 2017, 4, 149-149.	3.3	0
29	Improving Patient Specific Neurosurgical Models with Intraoperative Ultrasound and Augmented Reality Visualizations in a Neuronavigation Environment. Lecture Notes in Computer Science, 2016, , 28-35.	1.3	4
30	Towards Augmented Reality Guided Craniotomy Planning in Tumour Resections. Lecture Notes in Computer Science, 2016, , 163-174.	1.3	8
31	Augmented reality in neurovascular surgery: feasibility and first uses in the operating room. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1823-1836.	2.8	83
32	Augmented Reality for Specific Neurovascular Surgical Tasks. Lecture Notes in Computer Science, 2015, , 92-103.	1.3	8
33	Interaction-Based Registration Correction for Improved Augmented Reality Overlay in Neurosurgery. Lecture Notes in Computer Science, 2015, , 21-29.	1.3	9
34	An Evaluation of Depth Enhancing Perceptual Cues for Vascular Volume Visualization in Neurosurgery. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 391-403.	4.4	62
35	Augmented Reality in Neurovascular Surgery: First Experiences. Lecture Notes in Computer Science, 2014, , 80-89.	1.3	9
36	The state of the art of visualization in mixed reality image guided surgery. Computerized Medical Imaging and Graphics, 2013, 37, 98-112.	5.8	122

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37	Volume Visualization for Neurovascular Augmented Reality Surgery. Lecture Notes in Computer Science, 2013, , 211-220.	1.3	1
38	Visualizing the path of blood flow in static vessel images for image guided surgery of cerebral arteriovenous malformations. , 2012, , .		1
39	DVV: A Taxonomy for Mixed Reality Visualization in Image Guided Surgery. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 332-352.	4.4	67
40	A Realistic Test and Development Environment for Mixed Reality in Neurosurgery. Lecture Notes in Computer Science, 2012, , 13-23.	1.3	14
41	Augmented reality visualization for guidance in neurovascular surgery. Studies in Health Technology and Informatics, 2012, 173, 225-9.	0.3	22
42	DVV: Towards a Taxonomy for Mixed Reality Visualization in Image Guided Surgery. Lecture Notes in Computer Science, 2010, , 334-343.	1.3	9
43	Designing man-machine interactions for mobile clinical systems: MET triage support using Palm handhelds. European Journal of Operational Research, 2007, 177, 1409-1417.	5.7	13
44	Enhancing Depth Perception in Translucent Volumes. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1117-1124.	4.4	42
45	Special issue on 2021 augmented environments for computer-assisted interventions (AE-CAI): guest editors's foreword. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-2.	1.9	0