

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	Brain shift in neuronavigation of brain tumors: A review. <i>Medical Image Analysis</i> , 2017, 35, 403-420.	11.6	214
2	The state of the art of visualization in mixed reality image guided surgery. <i>Computerized Medical Imaging and Graphics</i> , 2013, 37, 98-112.	5.8	122
3	Augmented reality in neurovascular surgery: feasibility and first uses in the operating room. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1823-1836.	2.8	83
4	IBIS: an OR ready open-source platform for image-guided neurosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 363-378.	2.8	74
5	Quantifying attention shifts in augmented reality image-guided neurosurgery. <i>Healthcare Technology Letters</i> , 2017, 4, 188-192.	3.3	72
6	DVV: A Taxonomy for Mixed Reality Visualization in Image Guided Surgery. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 332-352.	4.4	67
7	An Evaluation of Depth Enhancing Perceptual Cues for Vascular Volume Visualization in Neurosurgery. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014, 20, 391-403.	4.4	62
8	Enhancing Depth Perception in Translucent Volumes. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2006, 12, 1117-1124.	4.4	42
9	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
10	Combining intraoperative ultrasound brain shift correction and augmented reality visualizations: a pilot study of eight cases. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	1.5	27
11	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
12	Augmented reality visualization for guidance in neurovascular surgery. <i>Studies in Health Technology and Informatics</i> , 2012, 173, 225-9.	0.3	22
13	A Survey on the Affordances of "Hearables". <i>Inventions</i> , 2018, 3, 48.	2.5	16
14	A Realistic Test and Development Environment for Mixed Reality in Neurosurgery. <i>Lecture Notes in Computer Science</i> , 2012, , 13-23.	1.3	14
15	Designing man-machine interactions for mobile clinical systems: MET triage support using Palm handhelds. <i>European Journal of Operational Research</i> , 2007, 177, 1409-1417.	5.7	13
16	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
17	Gesture-based registration correction using a mobile augmented reality image-guided neurosurgery system. <i>Healthcare Technology Letters</i> , 2018, 5, 137-142.	3.3	11
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Augmented Reality in Neurovascular Surgery: First Experiences. <i>Lecture Notes in Computer Science</i> , 2014, , 80-89.	1.3	9
21	Interaction-Based Registration Correction for Improved Augmented Reality Overlay in Neurosurgery. <i>Lecture Notes in Computer Science</i> , 2015, , 21-29.	1.3	9
22	DVV: Towards a Taxonomy for Mixed Reality Visualization in Image Guided Surgery. <i>Lecture Notes in Computer Science</i> , 2010, , 334-343.	1.3	9
23	Augmented Reality for Specific Neurovascular Surgical Tasks. <i>Lecture Notes in Computer Science</i> , 2015, , 92-103.	1.3	8
24	Towards Augmented Reality Guided Craniotomy Planning in Tumour Resections. <i>Lecture Notes in Computer Science</i> , 2016, , 163-174.	1.3	8
25	Towards Automatic Collateral Circulation Score Evaluation in Ischemic Stroke Using Image Decompositions and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2017, , 158-167.	1.3	7
26	Distance sonification in image-guided neurosurgery. <i>Healthcare Technology Letters</i> , 2017, 4, 199-203.	3.3	6
27	An augmented-reality system prototype for guiding transcranial Doppler ultrasound examination. <i>Multimedia Tools and Applications</i> , 2018, 77, 27789-27805.	3.9	5
28	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
29	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
30	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
31	Improving Patient Specific Neurosurgical Models with Intraoperative Ultrasound and Augmented Reality Visualizations in a Neuronavigation Environment. <i>Lecture Notes in Computer Science</i> , 2016, , 28-35.	1.3	4
32	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
33	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
34	Visualizing the path of blood flow in static vessel images for image guided surgery of cerebral arteriovenous malformations. , 2012, , .		1
35	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
36	Volume Visualization for Neurovascular Augmented Reality Surgery. <i>Lecture Notes in Computer Science</i> , 2013, , 211-220.	1.3	1

#	ARTICLE	IF	CITATIONS
37	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
38	Multimodal Cueing in Gamified Physiotherapy: A Preliminary Study. , 2021, , .		1
39	Guest Editors' Foreword. <i>Healthcare Technology Letters</i> , 2017, 4, 149-149.	3.3	0
40	Guest Editorial: Papers from the 12th Workshop on Augmented Environments for Computer-Assisted Interventions. <i>Healthcare Technology Letters</i> , 2018, 5, 136-136.	3.3	0
41	Special issue on 2020 augmented environments for computer-assisted interventions (AE-CAI): guest editors' foreword. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 217-218.	1.9	0
42	IDEA: Index of Difficulty for Eye Tracking Applications - An Analysis Model for Target Selection Tasks. , 2021, , .		0
43	Multimodal Cueing in Gamified Physiotherapy: A Preliminary Study. , 2021, , .		0
44	Special issue on 2021 augmented environments for computer-assisted interventions (AE-CAI): guest editors' foreword. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 0, , 1-2.	1.9	0
45	An Online Balance Training Application using Pose Estimation and Augmented Reality. , 2022, , .		0