Nicole Ledwos

List of Publications by Year
in descending order

14	592	933447 10	1058476 14
papers	citations	h-index	g-index

14	14	14	319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of learning curves on a simulated neurosurgical task using metrics selected by artificial intelligence. Journal of Neurosurgery, 2022, 137, 1160-1171.	1.6	10
2	Effect of Artificial Intelligence Tutoring vs Expert Instruction on Learning Simulated Surgical Skills Among Medical Students. JAMA Network Open, 2022, 5, e2149008.	5.9	47
3	Continuous monitoring of surgical bimanual expertise using deep neural networks in virtual reality simulation. Npj Digital Medicine, 2022, 5, 54.	10.9	12
4	Nondominant Hand Skills Spatial and Psychomotor Analysis During a Complex Virtual Reality Neurosurgical Taskâ€"A Case Series Study. Operative Neurosurgery, 2022, 23, 22-30.	0.8	3
5	Artificial Neural Network Approach to Competency-Based Training Using a Virtual Reality Neurosurgical Simulation. Operative Neurosurgery, 2022, 23, 31-39.	0.8	7
6	Virtual Reality Anterior Cervical Discectomy and Fusion Simulation on the Novel Sim-Ortho Platform: Validation Studies. Operative Neurosurgery, 2021, 20, 74-82.	0.8	23
7	Intelligent Tutoring Systems: Re-Envisioning Surgical Education in Response to COVID-19. Canadian Journal of Neurological Sciences, 2021, 48, 198-200.	0.5	16
8	Utilizing a multilayer perceptron artificial neural network to assess a virtual reality surgical procedure. Computers in Biology and Medicine, 2021, 136, 104770.	7.0	25
9	Artificial Neural Networks to Assess Virtual Reality Anterior Cervical Discectomy Performance. Operative Neurosurgery, 2020, 19, 65-75.	0.8	39
10	The Virtual Operative Assistant: An explainable artificial intelligence tool for simulation-based training in surgery and medicine. PLoS ONE, 2020, 15, e0229596.	2.5	124
11	Is Virtual Reality Surgical Performance Influenced by Force Feedback Device Utilized?. Journal of Surgical Education, 2019, 76, 262-273.	2.5	15
12	Machine Learning Identification of Surgical and Operative Factors Associated With Surgical Expertise in Virtual Reality Simulation. JAMA Network Open, 2019, 2, e198363.	5.9	88
13	Artificial Intelligence in Medical Education: Best Practices Using Machine Learning to Assess Surgical Expertise in Virtual Reality Simulation. Journal of Surgical Education, 2019, 76, 1681-1690.	2.5	115
14	Artificial Intelligence Distinguishes Surgical Training Levels in a Virtual Reality Spinal Task. Journal of Bone and Joint Surgery - Series A, 2019, 101, e127.	3.0	68