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	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
2	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
3	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
4	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
5	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
6	Artificial Neural Networks to Assess Virtual Reality Anterior Cervical Discectomy Performance. Operative Neurosurgery, 2020, 19, 65-75.	0.8	39
7	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
8	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
9	Intelligent Tutoring Systems: Re-Envisioning Surgical Education in Response to COVID-19. Canadian Journal of Neurological Sciences, 2021, 48, 198-200.	0.5	16
10	Is Virtual Reality Surgical Performance Influenced by Force Feedback Device Utilized?. Journal of Surgical Education, 2019, 76, 262-273.	2.5	15
11	Continuous monitoring of surgical bimanual expertise using deep neural networks in virtual reality simulation. Npj Digital Medicine, 2022, 5, 54.	10.9	12
12	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
13	Artificial Neural Network Approach to Competency-Based Training Using a Virtual Reality Neurosurgical Simulation. Operative Neurosurgery, 2022, 23, 31-39.	0.8	7
14	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