

Matthew S Holden

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

154
citations

1478505

6
h-index

1199594

12
g-index

20
all docs

20
docs citations

20
times ranked

229
citing authors

#	ARTICLE	IF	CITATIONS
1	The Development and Validation of Hand Motion Analysis to Evaluate Competency in Central Line Catheterization. <i>Academic Emergency Medicine</i> , 2015, 22, 212-218.	1.8	40
2	Development and Evaluation of a Simulation-based Curriculum for Ultrasound-guided Central Venous Catheterization. <i>Canadian Journal of Emergency Medicine</i> , 2016, 18, 405-413.	1.1	29
3	Machine learning methods for automated technical skills assessment with instructional feedback in ultrasound-guided interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1993-2003.	2.8	16
4	Examination of Learning Trajectories for Simulated Lumbar Puncture Training Using Hand Motion Analysis. <i>Academic Emergency Medicine</i> , 2015, 22, 1187-1195.	1.8	15
5	Sonographic Accuracy as a Novel Tool for Point-of-Care Ultrasound Competency Assessment. <i>AEM Education and Training</i> , 2017, 1, 316-324.	1.2	13
6	Tracked Ultrasonography Snapshots Enhance Needle Guidance for Percutaneous Renal Access: A Pilot Study. <i>Journal of Endourology</i> , 2014, 28, 1040-1045.	2.1	10
7	Assessment of Lumbar Puncture Skill in Experts and Nonexperts Using Checklists and Quantitative Tracking of Needle Trajectories: Implications for Competency-Based Medical Education. <i>Teaching and Learning in Medicine</i> , 2015, 27, 51-56.	2.1	6
8	Objective assessment of colonoscope manipulation skills in colonoscopy training. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 105-114.	2.8	4
9	Cognitive load theory as a framework for simulation-based, ultrasound-guided internal jugular catheterization training: Once is not enough. <i>Canadian Journal of Emergency Medicine</i> , 2019, 21, 141-148.	1.1	4
10	Self-guided training for deep brain stimulation planning using objective assessment. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1129-1139.	2.8	3
11	Skills Classification in Cardiac Ultrasound with Temporal Convolution and Domain Knowledge Using a Low-Cost Probe Tracker. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 3002-3013.	1.5	3
12	Overall Proficiency Assessment in Point-of-Care Ultrasound Interventions: The Stopwatch is not Enough. <i>Lecture Notes in Computer Science</i> , 2017, , 146-153.	1.3	3
13	A learning curve analysis of ultrasound-guided in-plane and out-of-plane vascular access training with Perk Tutor. , 2018, , .		3
14	Ultrasound video analysis for skill level assessment in FAST ultrasound. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 308-312.	1.9	2
15	Training with Perk Tutor improves ultrasound-guided in-plane needle insertion skill. , 2017, , .		1
16	Wanted: automated objective proficiency assessment metrics for the FAST exam (and other POCUS) Tj ETQq0 0 0 rBT /Overlock 10 Tf		1
17	Surgery Tutor for Computational Assessment of Technical Proficiency in Soft-Tissue Tumor Resection in a Simulated Setting. <i>Journal of Surgical Education</i> , 2019, 76, 872-880.	2.5	1
18	Reconstructing the nasal septum from instrument motion during septoplasty surgery. <i>Journal of Medical Imaging</i> , 2021, 8, 065001.	1.5	0

#	ARTICLE	IF	CITATIONS
19	Feasibility of video-based skills assessment: a study on ultrasound-guided needle insertions using simulated projections. , 2022, , .		0
20	Characterizing the biomechanical differences between novice and expert point-of-care ultrasound practitioners using a low-cost gyroscope and accelerometer integrated sensor: A pilot study. AEM Education and Training, 2022, 6, e10733.	1.2	0