Martin Wagner

List of Publications by Year
in descending order

40 papers	1,480 citations	393982 19 h-index	360668 35 g-index
40 all docs	40 docs citations	40 times ranked	1401 citing authors

#	Article	IF	Citations
1	IMHOTEP: cross-professional evaluation of a three-dimensional virtual reality system for interactive surgical operation planning, tumor board discussion and immersive training for complex liver surgery in a head-mounted display. Surgical Endoscopy and Other Interventional Techniques, 2022, 36, 126-134.	1.3	20
2	Surgical data science â€“ from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	7.0	107
3	The Problem of Appetite Loss After Major Abdominal Surgery. Annals of Surgery, 2022, 276, 256-269.	2.1	7
4	Gamified Expert Annotation Systems: Meta-Requirements and Tentative Design. Lecture Notes in Computer Science, 2022, , 154-166.	1.0	1
5	Robust deep learning-based semantic organ segmentation in hyperspectral images. Medical Image Analysis, 2022, 80, 102488.	7.0	27
6	A Delphi consensus statement for digital surgery. Npj Digital Medicine, 2022, 5, .	5.7	28
7	Comparative validation of multi-instance instrument segmentation in endoscopy: Results of the ROBUST-MIS 2019 challenge. Medical Image Analysis, 2021, 70, 101920.	7.0	41
8	A learning robot for cognitive camera control in minimally invasive surgery. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 5365-5374.	1.3	24
9	Heidelberg colorectal data set for surgical data science in the sensor operating room. Scientific Data, 2021, 8, 101.	2.4	37
10	Comparison of Conventional Methods for Bowel Length Measurement in Laparoscopic Surgery to a Novel Computer-Assisted 3D Measurement System. Obesity Surgery, 2021, 31, 4692-4700.	1.1	3
11	Flexible Facile Tactile Sensor for Smart Vessel Phantoms. Current Directions in Biomedical Engineering, 2021, 7, 87-91.	0.2	1
12	Effects of laparoscopy, laparotomy, and respiratory phase on liver volume in a live porcine model for liver resection. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 7049-7057.	1.3	4
13	Machine Learning for Surgical Phase Recognition. Annals of Surgery, 2021, 273, 684-693.	2.1	135
14	Cooperative Assistance in Robotic Surgery through Multi-Agent Reinforcement Learning. , 2021, , .		9
15	Artificial Intelligence-Assisted Surgery: Potential and Challenges. Visceral Medicine, 2020, 36, 450-455.	0.5	19
16	Deep learning for semantic segmentation of organs and tissues in laparoscopic surgery. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	16
17	Active learning using deep Bayesian networks for surgical workflow analysis. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1079-1087.	1.7	41
18	Prediction of laparoscopic procedure duration using unlabeled, multimodal sensor data. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1089-1095.	1.7	36

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19	Computer-assisted 3D bowel length measurement for quantitative laparoscopy. Surgical Endoscopy and Other Interventional Techniques, 2018, 32, 4052-4061.	1.3	5
20	Exploiting the potential of unlabeled endoscopic video data with self-supervised learning. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 925-933.	1.7	93
21	Mobile, real-time, and point-of-care augmented reality is robust, accurate, and feasible: a prospective pilot study. Surgical Endoscopy and Other Interventional Techniques, 2018, 32, 2958-2967.	1.3	9
22	Implementing, Connecting, and Evaluating a Standard-Based Integrated Operating Room within a German University Hospital. ACI Open, 2018, 02, e10-e20.	0.2	0
23	Toward a standard ontology of surgical process models. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1397-1408.	1.7	54
24	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. Journal of Medical Imaging, 2017, 4, 015001.	0.8	21
25	Projective biomechanical depth matching for soft tissue registration in laparoscopic surgery. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1101-1110.	1.7	19
26	Paradigm shift: cognitive surgery. Innovative Surgical Sciences, 2017, 2, 139-143.	0.4	9
27	Surgical data science for next-generation interventions. Nature Biomedical Engineering, 2017, 1, 691-696.	11.6	283
28	Image-based laparoscopic bowel measurement. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 407-419.	1.7	17
29	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4
30	Direct Observation versus Endoscopic Video Recording-Based Rating with the Objective Structured Assessment of Technical Skills for Training of Laparoscopic Cholecystectomy. European Surgical Research, 2016, 57, 1-9.	0.6	40
31	Superpixel-based structure classification for laparoscopic surgery. , 2016, , .		2
32	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 909-917.	1.7	37
33	Intraoperative on-the-fly organ-mosaicking for laparoscopic surgery. Journal of Medical Imaging, 2015, 2, 045001.	0.8	13
34	Knowledge-based workspace optimization of a redundant robot for minimally invasive robotic surgery (MIRS). , 2015, , .		0
35	Crowdtruth validation: a new paradigm for validating algorithms that rely on image correspondences. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1201-1212.	1.7	29
36	Reirradiation Using Carbon Ions in Patients with Locally Recurrent Rectal Cancer at HIT: First Results. Annals of Surgical Oncology, 2015, 22, 2068-2074.	0.7	50

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37	Physicsâ€based shape matching for intraoperative image guidance. Medical Physics, 2014, 41, 111901.	1.6	65
38	Real-time image guidance in laparoscopic liver surgery: first clinical experience with a guidance system based on intraoperative CT imaging. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 933-940.	1.3	89
39	Crowdsourcing for Reference Correspondence Generation in Endoscopic Images. Lecture Notes in Computer Science, 2014, 17, 349-356.	1.0	26
40	Context-aware Augmented Reality in laparoscopic surgery. Computerized Medical Imaging and Graphics, 2013, 37, 174-182.	3.5	59