

Martin Wagner

List of Publications by Year in descending order

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Version: 2024-02-01

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	Surgical data science for next-generation interventions. <i>Nature Biomedical Engineering</i> , 2017, 1, 691-696.	11.6	283
2	Machine Learning for Surgical Phase Recognition. <i>Annals of Surgery</i> , 2021, 273, 684-693.	2.1	135
3	Surgical data science "from concepts toward clinical translation. <i>Medical Image Analysis</i> , 2022, 76, 102306.	7.0	107
4	Exploiting the potential of unlabeled endoscopic video data with self-supervised learning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 925-933.	1.7	93
5	Real-time image guidance in laparoscopic liver surgery: first clinical experience with a guidance system based on intraoperative CT imaging. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2014, 28, 933-940.	1.3	89
6	Physics-based shape matching for intraoperative image guidance. <i>Medical Physics</i> , 2014, 41, 111901.	1.6	65
7	Context-aware Augmented Reality in laparoscopic surgery. <i>Computerized Medical Imaging and Graphics</i> , 2013, 37, 174-182.	3.5	59
8	Toward a standard ontology of surgical process models. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1397-1408.	1.7	54
9	Reirradiation Using Carbon Ions in Patients with Locally Recurrent Rectal Cancer at HIT: First Results. <i>Annals of Surgical Oncology</i> , 2015, 22, 2068-2074.	0.7	50
10	Active learning using deep Bayesian networks for surgical workflow analysis. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1079-1087.	1.7	41
11	Comparative validation of multi-instance instrument segmentation in endoscopy: Results of the ROBUST-MIS 2019 challenge. <i>Medical Image Analysis</i> , 2021, 70, 101920.	7.0	41
12	Direct Observation versus Endoscopic Video Recording-Based Rating with the Objective Structured Assessment of Technical Skills for Training of Laparoscopic Cholecystectomy. <i>European Surgical Research</i> , 2016, 57, 1-9.	0.6	40
13	Robust near real-time estimation of physiological parameters from megapixel multispectral images with inverse Monte Carlo and random forest regression. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 909-917.	1.7	37
14	Heidelberg colorectal data set for surgical data science in the sensor operating room. <i>Scientific Data</i> , 2021, 8, 101.	2.4	37
15	Prediction of laparoscopic procedure duration using unlabeled, multimodal sensor data. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1089-1095.	1.7	36
16	Crowdtruth validation: a new paradigm for validating algorithms that rely on image correspondences. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1201-1212.	1.7	29
17	A Delphi consensus statement for digital surgery. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	28
18	Robust deep learning-based semantic organ segmentation in hyperspectral images. <i>Medical Image Analysis</i> , 2022, 80, 102488.	7.0	27

#	ARTICLE	IF	CITATIONS
19	Crowdsourcing for Reference Correspondence Generation in Endoscopic Images. Lecture Notes in Computer Science, 2014, 17, 349-356.	1.0	26
20	A learning robot for cognitive camera control in minimally invasive surgery. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 5365-5374.	1.3	24
21	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. Journal of Medical Imaging, 2017, 4, 015001.	0.8	21
22	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
23	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
24	Artificial Intelligence-Assisted Surgery: Potential and Challenges. Visceral Medicine, 2020, 36, 450-455.	0.5	19
25	Image-based laparoscopic bowel measurement. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 407-419.	1.7	17
26	Deep learning for semantic segmentation of organs and tissues in laparoscopic surgery. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	16
27	Intraoperative on-the-fly organ-mosaicking for laparoscopic surgery. Journal of Medical Imaging, 2015, 2, 045001.	0.8	13
28	Paradigm shift: cognitive surgery. Innovative Surgical Sciences, 2017, 2, 139-143.	0.4	9
29	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
30	Cooperative Assistance in Robotic Surgery through Multi-Agent Reinforcement Learning. , 2021, , .		9
31	The Problem of Appetite Loss After Major Abdominal Surgery. Annals of Surgery, 2022, 276, 256-269.	2.1	7
32	Computer-assisted 3D bowel length measurement for quantitative laparoscopy. Surgical Endoscopy and Other Interventional Techniques, 2018, 32, 4052-4061.	1.3	5
33	Tissue classification for laparoscopic image understanding based on multispectral texture analysis. , 2016, , .		4
34	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
35	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
36	Superpixel-based structure classification for laparoscopic surgery. , 2016, , .		2

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37	Flexible Facile Tactile Sensor for Smart Vessel Phantoms. Current Directions in Biomedical Engineering, 2021, 7, 87-91.	0.2	1
38	Gamified Expert Annotation Systems: Meta-Requirements and Tentative Design. Lecture Notes in Computer Science, 2022, , 154-166.	1.0	1
39	Knowledge-based workspace optimization of a redundant robot for minimally invasive robotic surgery (MIRS). , 2015, , .		0
40	Implementing, Connecting, and Evaluating a Standard-Based Integrated Operating Room within a German University Hospital. ACI Open, 2018, 02, e10-e20.	0.2	0