

Andrea Schenk

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,388
citations

19
h-index

35
g-index

82
ext. papers

1,639
ext. citations

3.3
avg, IF

4.17
L-index

#	Paper	IF	Citations
74	Robust Segmentation Models Using an Uncertainty Slice Sampling-Based Annotation Workflow. <i>IEEE Access</i> , 2022 , 10, 4728-4738	3.5	1
73	Robust Liver Segmentation with Deep Learning Across DCE-MRI Contrast Phases. <i>Informatik Aktuell</i> , 2022 , 13-18	0.3	
72	Anisotropic 3D Multi-Stream CNN for Accurate Prostate Segmentation from Multi-Planar MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 200, 105821	6.9	10
71	Towards realistic organ models for 3D printing and visualization. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 166-170	0.5	1
70	Case Report: Virtual and Interactive 3D Vascular Reconstruction Before Planned Pancreatic Head Resection and Complex Vascular Anatomy: A Bench-To-Bedside Transfer of New Visualization Techniques in Pancreatic Surgery. <i>Frontiers in Surgery</i> , 2020 , 7, 38	2.3	3
69	Adaptive Illumination Sampling for Direct Volume Rendering. <i>Lecture Notes in Computer Science</i> , 2020 , 107-118	0.9	0
68	Reducing inter-observer variability and interaction time of MR liver volumetry by combining automatic CNN-based liver segmentation and manual corrections. <i>PLoS ONE</i> , 2019 , 14, e0217228	3.7	17
67	Tangible Organs 2019 ,		2
66	Multimodal image registration for liver radioembolization planning and patient assessment. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 215-225	3.9	4
65	Landmark-based evaluation of a deformable motion correction for DCE-MRI of the liver. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 597-606	3.9	4
64	Younger Age is an Independent Factor for Graft Weight Overestimation: Analysis of the Clinical Impact on Recipient Outcomes in 340 Japanese Living Liver Donors. <i>World Journal of Surgery</i> , 2018 , 42, 218-224	3.3	2
63	Focused scores enable reliable discrimination of small differences in steatosis. <i>Diagnostic Pathology</i> , 2018 , 13, 76	3	2
62	Automatic liver tumor segmentation in CT with fully convolutional neural networks and object-based postprocessing. <i>Scientific Reports</i> , 2018 , 8, 15497	4.9	102
61	Predictive SIRT dosimetry based on a territorial model. <i>EJNMMI Physics</i> , 2017 , 4, 25	4.4	5
60	Visualization of Vascular and Parenchymal Regeneration after 70% Partial Hepatectomy in Normal Mice. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	3
59	Zonated quantification of steatosis in an entire mouse liver. <i>Computers in Biology and Medicine</i> , 2016 , 73, 108-18	7	26
58	Establishment of a rat model: Associating liver partition with portal vein ligation for staged hepatectomy. <i>Surgery</i> , 2016 , 159, 1299-307	3.6	21

57	An efficient level set method for simultaneous intensity inhomogeneity correction and segmentation of MR images. <i>Computerized Medical Imaging and Graphics</i> , 2016 , 48, 9-20	7.6	20
56	Quantification of Hepatic Vascular and Parenchymal Regeneration in Mice. <i>PLoS ONE</i> , 2016 , 11, e0160583	3.7	8
55	Minimal vascular flows cause strong heat sink effects in hepatic radiofrequency ablation ex vivo. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2016 , 23, 508-16	2.8	18
54	Intrahepatic Size Regulation in a Surgical Model: Liver Resection-Induced Liver Regeneration Counteracts the Local Atrophy following Simultaneous Portal Vein Ligation. <i>European Surgical Research</i> , 2016 , 57, 125-37	1.1	2
53	Remote Visualization Techniques for Medical Imaging Research and Image-Guided Procedures. <i>Mathematics and Visualization</i> , 2016 , 133-154	0.6	2
52	Computer-assisted surgery planning in children with complex liver tumors identifies variability of the classical Couinaud classification. <i>Journal of Pediatric Surgery</i> , 2016 , 51, 1801-1806	2.6	12
51	Pre-treatment estimation of future remnant liver function using gadoxetic acid MRI in patients with HCC. <i>Journal of Hepatology</i> , 2016 , 65, 1155-1162	13.4	28
50	Fast and accurate identification of fat droplets in histological images. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 121, 59-65	6.9	7
49	Experimental Evaluation of the Heat Sink Effect in Hepatic Microwave Ablation. <i>PLoS ONE</i> , 2015 , 10, e0134301	3.7	47
48	Intrahepatic Vascular Anatomy in Rats and Mice--Variations and Surgical Implications. <i>PLoS ONE</i> , 2015 , 10, e0141798	3.7	18
47	Limited correlation between conventional pathologist and automatic computer-assisted quantification of hepatic steatosis due to difference between event-based and surface-based analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1473-7	7.2	10
46	Imaging and surgical planning for perihilar cholangiocarcinoma. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2014 , 21, 525-32	2.8	20
45	Spatio-temporal simulation of first pass drug perfusion in the liver. <i>PLoS Computational Biology</i> , 2014 , 10, e1003499	5	35
44	Application and evaluation of interactive 3D PDF for presenting and sharing planning results for liver surgery in clinical routine. <i>PLoS ONE</i> , 2014 , 9, e115697	3.7	19
43	Practical quantification of necrosis in histological whole-slide images. <i>Computerized Medical Imaging and Graphics</i> , 2013 , 37, 313-22	7.6	24
42	Concepts for Liver Segment Classification: Neither Old Ones nor New Ones, but a Comprehensive One. <i>Journal of Clinical Imaging Science</i> , 2013 , 3, 48	1.1	25
41	Precise local resection for hepatocellular carcinoma based on tumor-surrounding vascular anatomy revealed by 3D analysis. <i>Digestive Surgery</i> , 2012 , 29, 99-106	2.5	17
40	"Anatomical" versus "territorial" belonging of the middle hepatic vein: virtual imaging and clinical repercussions. <i>Journal of Surgical Research</i> , 2011 , 166, 146-55	2.5	10

39	Planning of image-guided interventions in the liver. <i>IEEE Pulse</i> , 2011 , 2, 48-55	0.7	9
38	In vivo validation of a therapy planning system for laser-induced thermotherapy (LITT) of liver malignancies. <i>International Journal of Colorectal Disease</i> , 2011 , 26, 799-808	3	18
37	A comparison of sampling strategies for histological image analysis. <i>Journal of Pathology Informatics</i> , 2011 , 2, S11	4.4	10
36	Planung von Leberresektionen 2011 , 515-524		
35	Donor/recipient algorithm for management of the middle hepatic vein in right graft live donor liver transplantation. <i>American Journal of Surgery</i> , 2010 , 199, 708-15	2.7	11
34	A fast and robust hepatocyte quantification algorithm including vein processing. <i>BMC Bioinformatics</i> , 2010 , 11, 124	3.6	2
33	Ex situ quantification of the cooling effect of liver vessels on radiofrequency ablation. <i>Langenbeck's Archives of Surgery</i> , 2009 , 394, 475-81	3.4	24
32	Interactive determination of robust safety margins for oncologic liver surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009 , 4, 469-74	3.9	13
31	Vascular and biliary anatomy of the right hilar window: its impact on recipient morbidity and mortality for right graft live donor liver transplantation. <i>World Journal of Surgery</i> , 2009 , 33, 1941-51	3.3	12
30	Matching of anatomical tree structures for registration of medical images. <i>Image and Vision Computing</i> , 2009 , 27, 923-933	3.7	22
29	Formation of venous collaterals and regeneration in the donor remnant liver: volumetric analysis and three-dimensional visualization. <i>Transplantation Proceedings</i> , 2009 , 41, 2515-7	1.1	8
28	Median liver lobe of woodchuck as a model to study hepatic outflow obstruction: a pilot study. <i>Liver International</i> , 2008 , 28, 1236-44	7.9	2
27	Small-for-size syndrome in the rat: does size or technique matter?. <i>Journal of Surgical Research</i> , 2008 , 149, 15-26	2.5	18
26	Anatomical classification of the peripheral right hepatic duct: early identification of a preventable source of morbidity and mortality in adult live donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3155-7	1.1	1
25	Hepatic hilar and sectorial vascular and biliary anatomy in right graft adult live donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3147-50	1.1	8
24	Intrahepatic biliary anatomy derived from right graft adult live donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3151-4	1.1	
23	A new systematic classification of peripheral anatomy of the right hepatic duct: experience from adult live donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3158-60	1.1	6
22	Liver "compliance": a previously unrecognized preoperative predictor of small-for-size syndrome in adult living donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3142-6	1.1	3

21	Clinical relevance of model based computer-assisted diagnosis and therapy 2008 ,		13
20	Recovery of liver perfusion after focal outflow obstruction and liver resection. <i>Transplantation</i> , 2008 , 85, 748-56	1.8	29
19	Influence of intrahepatic vessels on volume and shape of percutaneous thermal ablation zones: in vivo evaluation in a porcine model. <i>Investigative Radiology</i> , 2008 , 43, 211-8	10.1	47
18	Portal vein segmentation of a 3D-planning system for liver surgery--in vivo evaluation in a porcine model. <i>Annals of Surgical Oncology</i> , 2008 , 15, 1899-907	3.1	18
17	Preoperative volume prediction in adult living donor liver transplantation: how much can we rely on it?. <i>American Journal of Transplantation</i> , 2007 , 7, 672-9	8.7	64
16	Matching von Baumstrukturen 2007 , 116-120		1
15	Vollautomatische Vorverarbeitung und rigide Registrierung zur Rekonstruktion von Bildern histologischer Stufenschnitte der Rattenleber 2007 , 419-423		2
14	Matching of Tree Structures for Registration of Medical Images. <i>Lecture Notes in Computer Science</i> , 2007 , 13-24	0.9	6
13	Preoperative volume calculation of the hepatic venous draining areas with multi-detector row CT in adult living donor liver transplantation: Impact on surgical procedure. <i>European Radiology</i> , 2006 , 16, 2803-10	8	14
12	The influence of accessory right inferior hepatic veins on the venous drainage in right graft living donor liver transplantation. <i>Hepato-Gastroenterology</i> , 2006 , 53, 479-83		4
11	Parenchyma transection in adult live donor liver transplantation: the virtual dilemma of "where to cut". Experience based on virtual 3-dimensional computed tomography imaging reconstructions. <i>Hepato-Gastroenterology</i> , 2006 , 53, 811-5		2
10	3D CT modeling of hepatic vessel architecture and volume calculation in living donated liver transplantation. <i>European Radiology</i> , 2004 , 14, 326-33	8	69
9	Präzisionssteigerung in der Operationsplanung hilber Gallengangkarzinome: Erste Erfahrungen mit der computerunterstützten 3D-CT-Bildgebung. <i>Visceral Medicine</i> , 2004 , 20, 78-81	2.4	
8	Intraoperative augmented reality for minimally invasive liver interventions 2003 ,		22
7	Recent Developments in Organ-Selective Reconstruction and Analysis of Multiphase Liver CT. <i>Imaging Decisions (Berlin, Germany)</i> , 2003 , 7, 37-43		7
6	Planning of anatomical resections and in situ ablations in oncologic liver surgery. <i>International Congress Series</i> , 2003 , 1256, 684-689		2
5	Kombination von Bildanalyse und physikalischer Simulation für die Planung von Behandlungen maligner Lebertumoren mittels laserinduzierter Thermotheapie. <i>Informatik Aktuell</i> , 2003 , 428-432	0.3	
4	Analysis of vasculature for liver surgical planning. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1344-51	1.7	301

3	Local-cost computation for efficient segmentation of 3D objects with live wire 2001 ,		17
2	Optimierte semi-automatische Segmentierung von 3D-Objekten mit Live Wire und Shape-Based Interpolation. <i>Informatik Aktuell</i> , 2001 , 202-206	0.3	4
1	Efficient Semiautomatic Segmentation of 3D Objects in Medical Images. <i>Lecture Notes in Computer Science</i> , 2000 , 186-195	0.9	55