

Andrea Schenk

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8046079/andrea-schenk-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Analysis of vasculature for liver surgical planning. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1344-57 | 11.7 | 301 |
| 73 | 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 |
| 72 | 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 |
| 71 | 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 |
| 70 | Efficient Semiautomatic Segmentation of 3D Objects in Medical Images. <i>Lecture Notes in Computer Science</i> , 2000 , 186-195 | 0.9 | 55 |
| 69 | 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 |
| 68 | Experimental Evaluation of the Heat Sink Effect in Hepatic Microwave Ablation. <i>PLoS ONE</i> , 2015 , 10, e0134301 | 3.7 | 47 |
| 67 | Spatio-temporal simulation of first pass drug perfusion in the liver. <i>PLoS Computational Biology</i> , 2014 , 10, e1003499 | 5 | 35 |
| 66 | Recovery of liver perfusion after focal outflow obstruction and liver resection. <i>Transplantation</i> , 2008 , 85, 748-56 | 1.8 | 29 |
| 65 | 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 |
| 64 | Zonated quantification of steatosis in an entire mouse liver. <i>Computers in Biology and Medicine</i> , 2016 , 73, 108-18 | 7 | 26 |
| 63 | 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 |
| 62 | Practical quantification of necrosis in histological whole-slide images. <i>Computerized Medical Imaging and Graphics</i> , 2013 , 37, 313-22 | 7.6 | 24 |
| 61 | 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 |
| 60 | Matching of anatomical tree structures for registration of medical images. <i>Image and Vision Computing</i> , 2009 , 27, 923-933 | 3.7 | 22 |
| 59 | Intraoperative augmented reality for minimally invasive liver interventions 2003 , | | 22 |
| 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 | Imaging and surgical planning for perihilar cholangiocarcinoma. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2014 , 21, 525-32 | 2.8 | 20 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | Intrahepatic Vascular Anatomy in Rats and Mice--Variations and Surgical Implications. <i>PLoS ONE</i> , 2015 , 10, e0141798 | 3.7 | 18 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 47 | Local-cost computation for efficient segmentation of 3D objects with live wire 2001 , | | 17 |
| 46 | 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 |
| 45 | 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 |
| 44 | Clinical relevance of model based computer-assisted diagnosis and therapy 2008 , | | 13 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |

| | | | |
|----|---|-----|----|
| 39 | "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 |
| 38 | A comparison of sampling strategies for histological image analysis. <i>Journal of Pathology Informatics</i> , 2011 , 2, S11 | 4.4 | 10 |
| 37 | 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 |
| 36 | Planning of image-guided interventions in the liver. <i>IEEE Pulse</i> , 2011 , 2, 48-55 | 0.7 | 9 |
| 35 | 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 |
| 34 | Hepatic hilar and sectorial vascular and biliary anatomy in right graft adult live liver donor transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3147-50 | 1.1 | 8 |
| 33 | Quantification of Hepatic Vascular and Parenchymal Regeneration in Mice. <i>PLoS ONE</i> , 2016 , 11, e0160584 | 3.7 | 8 |
| 32 | 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 |
| 31 | Recent Developments in Organ-Selective Reconstruction and Analysis of Multiphase Liver CT. <i>Imaging Decisions (Berlin, Germany)</i> , 2003 , 7, 37-43 | | 7 |
| 30 | A new systematic classification of peripheral anatomy of the right hepatic duct: experience from adult live liver donor transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3158-60 | 1.1 | 6 |
| 29 | Matching of Tree Structures for Registration of Medical Images. <i>Lecture Notes in Computer Science</i> , 2007 , 13-24 | 0.9 | 6 |
| 28 | Predictive SIRT dosimetry based on a territorial model. <i>EJNMMI Physics</i> , 2017 , 4, 25 | 4.4 | 5 |
| 27 | 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 |
| 26 | Optimierte semi-automatische Segmentierung von 3D-Objekten mit Live Wire und Shape-Based Interpolation. <i>Informatik Aktuell</i> , 2001 , 202-206 | 0.3 | 4 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Visualization of Vascular and Parenchymal Regeneration after 70% Partial Hepatectomy in Normal Mice. <i>Journal of Visualized Experiments</i> , 2016 , | 1.6 | 3 |

| | | | |
|----|--|-----|---|
| 21 | 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 |
| 20 | Tangible Organs 2019 , | | 2 |
| 19 | A fast and robust hepatocyte quantification algorithm including vein processing. <i>BMC Bioinformatics</i> , 2010 , 11, 124 | 3.6 | 2 |
| 18 | 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 |
| 17 | Planning of anatomical resections and in situ ablations in oncologic liver surgery. <i>International Congress Series</i> , 2003 , 1256, 684-689 | | 2 |
| 16 | Vollautomatische Vorverarbeitung und rigide Registrierung zur Rekonstruktion von Bildern histologischer Stufenschnitte der Rattenleber 2007 , 419-423 | | 2 |
| 15 | 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 |
| 14 | Remote Visualization Techniques for Medical Imaging Research and Image-Guided Procedures. <i>Mathematics and Visualization</i> , 2016 , 133-154 | 0.6 | 2 |
| 13 | 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 |
| 12 | Focused scores enable reliable discrimination of small differences in steatosis. <i>Diagnostic Pathology</i> , 2018 , 13, 76 | 3 | 2 |
| 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 | 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 |
| 9 | Robust Segmentation Models Using an Uncertainty Slice Sampling-Based Annotation Workflow. <i>IEEE Access</i> , 2022 , 10, 4728-4738 | 3.5 | 1 |
| 8 | Matching von Baumstrukturen 2007 , 116-120 | | 1 |
| 7 | Towards realistic organ models for 3D printing and visualization. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 166-170 | 0.5 | 1 |
| 6 | Adaptive Illumination Sampling for Direct Volume Rendering. <i>Lecture Notes in Computer Science</i> , 2020 , 107-118 | 0.9 | 0 |
| 5 | Intrahepatic biliary anatomy derived from right graft adult live donor liver transplantation. <i>Transplantation Proceedings</i> , 2008 , 40, 3151-4 | 1.1 | |
| 4 | Präzisionssteigerung in der Operationsplanung höher Gallengangkarzinome: Erste Erfahrungen mit der computerunterstützten 3D-CT-Bildgebung. <i>Visceral Medicine</i> , 2004 , 20, 78-81 | 2.4 | |

- 3 Kombination von Bildanalyse und physikalischer Simulation für die Planung von Behandlungen maligner Lebertumoren mittels laserinduzierter Thermotherapie. *Informatik Aktuell*, **2003**, 428-432 0.3
- 2 Planung von Leberresektionen **2011**, 515-524
- 1 Robust Liver Segmentation with Deep Learning Across DCE-MRI Contrast Phases. *Informatik Aktuell*, **2022**, 13-18 0.3