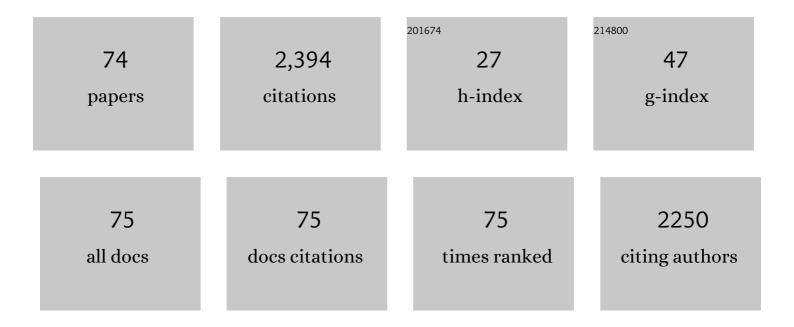
Thomas LangÃ,

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3747936/publications.pdf Version: 2024-02-01



THOMASLANCÃ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A review of calibration techniques for freehand 3-D ultrasound systems. Ultrasound in Medicine and Biology, 2005, 31, 449-471. | 1.5 | 229 |
| 2 | SonoWand, an Ultrasound-based Neuronavigation System. Neurosurgery, 2000, 47, 1373-1380. | 1.1 | 200 |
| 3 | A review of calibration techniques for freehand 3-D ultrasound systems. Ultrasound in Medicine and Biology, 2005, 31, 143-165. | 1.5 | 196 |
| 4 | European association of endoscopic surgeons (EAES) consensus statement on the use of robotics in general surgery. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 253-288. | 2.4 | 114 |
| 5 | Probe calibration for freehand 3-D ultrasound. Ultrasound in Medicine and Biology, 2003, 29, 1607-1623. | 1.5 | 92 |
| 6 | A study of psychomotor skills in minimally invasive surgery: what differentiates expert and nonexpert performance. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 854-863. | 2.4 | 91 |
| 7 | Accuracy Evaluation of a 3D Ultrasound-Based Neuronavigation System. Computer Aided Surgery, 2002, 7, 197-222. | 1.8 | 72 |
| 8 | The Role of Tactile Feedback in Laparoscopic Surgery. Surgical Laparoscopy, Endoscopy and Percutaneous Techniques, 2006, 16, 390-400. | 0.8 | 70 |
| 9 | CustusX: an open-source research platform for image-guided therapy. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 505-519. | 2.8 | 67 |
| 10 | Multimodal Image Fusion in Ultrasound-Based Neuronavigation: Improving Overview and Interpretation by Integrating Preoperative MRI with Intraoperative 3D Ultrasound. Computer Aided Surgery, 2003, 8, 49-69. | 1.8 | 62 |
| 11 | Perceiving haptic feedback in virtual reality simulators. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 2391-2397. | 2.4 | 62 |
| 12 | Lack of transfer of skills after virtual reality simulator training with haptic feedback. Minimally Invasive Therapy and Allied Technologies, 2017, 26, 346-354. | 1.2 | 60 |
| 13 | SonoWand, an Ultrasound-based Neuronavigation System. Neurosurgery, 2000, 47, 1373-1380. | 1.1 | 58 |
| 14 | Laparoscopic navigation pointer for three-dimensional image?guided surgery. Surgical Endoscopy and Other Interventional Techniques, 2004, 18, 1242-1248. | 2.4 | 56 |
| 15 | Navigated Bronchoscopy. Journal of Bronchology and Interventional Pulmonology, 2014, 21, 242-264. | 1.4 | 55 |
| 16 | 3D ultrasound-based navigation for radiofrequency thermal ablation in the treatment of liver malignancies. Surgical Endoscopy and Other Interventional Techniques, 2003, 17, 933-938. | 2.4 | 47 |
| 17 | Airway Segmentation and Centerline Extraction from Thoracic CT – Comparison of a New Method to State of the Art Commercialized Methods. PLoS ONE, 2015, 10, e0144282. | 2.5 | 42 |
| 18 | Accuracy evaluation of a 3D ultrasound-based neuronavigation system. Computer Aided Surgery, 2002, 7, 197-222. | 1.8 | 41 |

Thomas LangÃ,

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Laparoscopic ultrasound: a survey of its current and future use, requirements, and integration with navigation technology. Surgical Endoscopy and Other Interventional Techniques, 2010, 24, 2944-2953. | 2.4 | 38 |
| 20 | Navigated laparoscopic ultrasound in abdominal soft tissue surgery: technological overview and perspectives. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 585-599. | 2.8 | 37 |
| 21 | Multimodal Phantom of Liver Tissue. PLoS ONE, 2013, 8, e64180. | 2.5 | 37 |
| 22 | Semantic segmentation and detection of mediastinal lymph nodes and anatomical structures in CT data for lung cancer staging. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 977-986. | 2.8 | 37 |
| 23 | Navigated ultrasound in laparoscopic surgery. Minimally Invasive Therapy and Allied Technologies, 2009, 18, 36-53. | 1.2 | 32 |
| 24 | Cooling vest for improving surgeons' thermal comfort: A multidisciplinary design project. Minimally Invasive Therapy and Allied Technologies, 2009, 18, 20-29. | 1.2 | 32 |
| 25 | Navigation in laparoscopy – prototype research platform for improved imageâ€guided surgery. Minimally Invasive Therapy and Allied Technologies, 2008, 17, 17-33. | 1.2 | 31 |
| 26 | A robust and automatic method for evaluating accuracy in 3-D ultrasound-based navigation. Ultrasound in Medicine and Biology, 2003, 29, 1439-1452. | 1.5 | 30 |
| 27 | Are Cold Light Sources Really Cold?. Surgical Laparoscopy, Endoscopy and Percutaneous Techniques, 2006, 16, 370-376. | 0.8 | 29 |
| 28 | Initial experience with stereoscopic visualization of three-dimensional ultrasound data in surgery. Surgical Endoscopy and Other Interventional Techniques, 2000, 14, 1074-1078. | 2.4 | 28 |
| 29 | Limitations of haptic feedback devices on construct validity of the LapSim® virtual reality simulator. Surgical Endoscopy and Other Interventional Techniques, 2013, 27, 1386-1396. | 2.4 | 27 |
| 30 | Navigated laparoscopy – liver shift and deformation due to pneumoperitoneum in an animal model. Minimally Invasive Therapy and Allied Technologies, 2012, 21, 241-248. | 1.2 | 26 |
| 31 | Accuracy of electromagnetic tracking with a prototype field generator in an interventional OR setting. Medical Physics, 2011, 39, 399-406. | 3.0 | 21 |
| 32 | An integrated model-based software for FUS in moving abdominal organs. International Journal of Hyperthermia, 2015, 31, 240-250. | 2.5 | 21 |
| 33 | A novel platform for electromagnetic navigated ultrasound bronchoscopy (EBUS). International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1431-1443. | 2.8 | 21 |
| 34 | Three-Dimensional Blood Vessel Segmentation and Centerline Extraction based on Two-Dimensional Cross-Section Analysis. Annals of Biomedical Engineering, 2015, 43, 1223-1234. | 2.5 | 20 |
| 35 | Laparoscopic Ultrasound for Hepatocellular Carcinoma and Colorectal Liver Metastasis. Surgical Laparoscopy, Endoscopy and Percutaneous Techniques, 2013, 23, 135-144. | 0.8 | 19 |
| 36 | Liver deformation in an animal model due to pneumoperitoneum assessed by a vessel-based deformable registration. Minimally Invasive Therapy and Allied Technologies, 2014, 23, 279-286. | 1.2 | 19 |

Thomas LangÃ,

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Bronchoscope-induced Displacement of Lung Targets. Journal of Bronchology and Interventional Pulmonology, 2013, 20, 206-212. | 1.4 | 18 |
| 38 | Anthropomorphic liver phantom with flow for multimodal image-guided liver therapy research and training. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 61-72. | 2.8 | 18 |
| 39 | A novel research platform for electromagnetic navigated bronchoscopy using cone beam CT imaging and an animal model. Minimally Invasive Therapy and Allied Technologies, 2011, 20, 30-41. | 1.2 | 16 |
| 40 | Wavelet-based edge detection in ultrasound images. Ultrasound in Medicine and Biology, 2001, 27, 89-99. | 1.5 | 15 |
| 41 | Motion tracking in the liver: Validation of a method based on 4D ultrasound using a nonrigid registration technique. Medical Physics, 2014, 41, 082903. | 3.0 | 15 |
| 42 | Automatic registration of CT images to patient during the initial phase of bronchoscopy: A clinical pilot study. Medical Physics, 2014, 41, 041903. | 3.0 | 15 |
| 43 | Psychomotor skills assessment by motion analysis in minimally invasive surgery on an animal organ. Minimally Invasive Therapy and Allied Technologies, 2017, 26, 240-248. | 1.2 | 14 |
| 44 | Intraoperative localized constrained registration in navigated bronchoscopy. Medical Physics, 2017, 44, 4204-4212. | 3.0 | 14 |
| 45 | A multimodal image guiding system for Navigated Ultrasound Bronchoscopy (EBUS): A human feasibility study. PLoS ONE, 2017, 12, e0171841. | 2.5 | 14 |
| 46 | A Methodical Quantification of Needle Visibility and Echogenicity in Ultrasound Images. Ultrasound in Medicine and Biology, 2019, 45, 998-1009. | 1.5 | 14 |
| 47 | High-definition television in medicine. Surgical Endoscopy and Other Interventional Techniques, 2006, 20, 349-350. | 2.4 | 12 |
| 48 | Blood Vessel Segmentation and Centerline Tracking Using Local Structure Analysis. IFMBE Proceedings, 2015, , 122-125. | 0.3 | 12 |
| 49 | Ultrasound-based navigation for open liver surgery using active liver tracking. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1765-1773. | 2.8 | 10 |
| 50 | Workflow and intervention times of MR-guided focused ultrasound – Predicting the impact of new techniques. Journal of Biomedical Informatics, 2016, 60, 38-48. | 4.3 | 9 |
| 51 | Can a Dinosaur Think? Implementation of Artificial Intelligence in Extracorporeal Shock Wave Lithotripsy. European Urology Open Science, 2021, 27, 33-42. | 0.4 | 9 |
| 52 | Development of a Multimodal Tumor Model for Porcine Liver. Journal of Gastrointestinal Surgery, 2010, 14, 1969-1973. | 1.7 | 7 |
| 53 | Degree of Adhesions After Repair of Incisional Hernia. Journal of the Society of Laparoendoscopic Surgeons, 2010, 14, 399-404. | 1.1 | 7 |
| 54 | 3D multiscale vessel enhancement based centerline extraction of blood vessels. , 2013, , . | | 7 |

THOMAS LANGÃ,

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A new visualization method for navigated bronchoscopy. Minimally Invasive Therapy and Allied Technologies, 2018, 27, 119-126. | 1.2 | 7 |
| 56 | Laboratory test of Single Landmark registration method for ultrasound-based navigation in laparoscopy using an open-source platform. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1927-1936. | 2.8 | 6 |
| 57 | Navigated Bronchoscopy With Electromagnetic Tracking—Cone Beam Computed Tomography Influence on Tracking and Registration Accuracy. Journal of Bronchology and Interventional Pulmonology, 2011, 18, 329-336. | 1.4 | 5 |
| 58 | An open electromagnetic tracking framework applied to targeted liver tumour ablation. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1475-1484. | 2.8 | 5 |
| 59 | Mediastinal lymph nodes segmentation using 3D convolutional neural network ensembles and anatomical priors guiding. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 44-58. | 1.9 | 5 |
| 60 | Peripheral tumour targeting using open-source virtual bronchoscopy with electromagnetic tracking: a multi-user pre-clinical study. Minimally Invasive Therapy and Allied Technologies, 2019, 28, 363-372. | 1.2 | 4 |
| 61 | Teacher-student approach for lung tumor segmentation from mixed-supervised datasets. PLoS ONE, 2022, 17, e0266147. | 2.5 | 4 |
| 62 | Can effective pedagogy be ensured in minimally invasive surgery e-learning?. Minimally Invasive Therapy and Allied Technologies, 2020, , 1-11. | 1.2 | 3 |
| 63 | Using the CustusX toolkit to create an image guided bronchoscopy application: Fraxinus. PLoS ONE, 2019, 14, e0211772. | 2.5 | 2 |
| 64 | Blockâ€matchingâ€based registration to evaluate ultrasound visibility of percutaneous needles in liverâ€mimicking phantoms. Medical Physics, 2021, 48, 7602. | 3.0 | 2 |
| 65 | An experimental operating room project for advanced laparoscopic surgery. Seminars in Laparoscopic Surgery, 2004, 11, 211-6. | 1.0 | 2 |
| 66 | Laparoscopic Pancreas Surgery: Image Guidance Solutions. , 2017, , . | | 1 |
| 67 | Aspiration and altered airway anatomy: a presentation with a twist. BMJ Case Reports, 2018, 2018, bcr-2018-224331. | 0.5 | 1 |
| 68 | Accuracy evaluation of a 3D ultrasound-based neuronavigation system. , 2002, , 63-68. | | 1 |
| 69 | Real-time endoscope and intraoperative ultrasound integration in computer assisted navigated surgery. International Congress Series, 2005, 1281, 606-611. | 0.2 | 0 |
| 70 | A new removable airway stent. European Clinical Respiratory Journal, 2016, 3, 30010. | 1.5 | 0 |
| 71 | ENDOBRONCHIAL TUMOR TARGETING USING A NOVEL ALIGNMENT OF AN OPEN-SOURCE VIRTUAL BRONCHOSCOPY PLATFORM WITH ELECTROMAGNETIC TRACKING: A MULTI-USER PRECLINICAL STUDY. Chest, 2018, 154, 869A. | 0.8 | 0 |
| 72 | Pulmonologist evaluation on new CT visualization for guidance to lung lesions during bronchoscopy. Minimally Invasive Therapy and Allied Technologies, 2019, 28, 22-28. | 1.2 | 0 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Computer-Aided Interventions. , 2006, , 271-287. | | Ο |
| 74 | A novel clip-on device for electromagnetic tracking in endobronchial ultrasound bronchoscopy. Minimally Invasive Therapy and Allied Technologies, 2022, 31, 1041-1049. | 1.2 | 0 |