

# Thomas Wittenberg

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7583602/thomas-wittenberg-publications-by-year.pdf>

**Version:** 2024-04-28

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.

121  
papers

1,356  
citations

20  
h-index

34  
g-index

138  
ext. papers

1,591  
ext. citations

1.9  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
121	3D Reconstruction of the Colon from Monocular Sequences Evaluation by 3D-printed Phantom Data. <i>Informatik Aktuell</i> , <b>2022</b> , 141-146	0.3	
120	MitoDet: Simple and Robust Mitosis Detection. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 53-57	0.9	
119	Fast whole-slide cartography in colon cancer histology using superpixels and CNN classification.. <i>Journal of Medical Imaging</i> , <b>2022</b> , 9, 027501	2.6	1
118	Towards computer aided diagnosis of infective endocarditis in whole-slide images of heart valve tissue using FISH. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 468-471	0.5	0
117	Acquisition of Semantics for AI-based Applications in Medical Technologies. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 515-518	0.5	
116	Multispectral single chip reconstruction using DNNs with application to open neurosurgery. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 37-40	0.5	
115	Pandemic Robot. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 601-604	0.5	
114	Partial 3D-reconstruction of the colon from monoscopic colonoscopy videos using shape-from-motion and deep learning. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 335-338	0.5	1
113	The Online Expert-Panel Review of a Novel Web-seminar Format. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 453-455	0.5	
112	Panoramic Imaging Assessment of Different Bladder Phantoms - An Evaluation Study. <i>Urology</i> , <b>2021</b> , 156, e103-e110	1.6	0
111	Exploring Flood Filling Networks for Instance Segmentation of XXL-Volumetric and Bulk Material CT Data. <i>Journal of Nondestructive Evaluation</i> , <b>2021</b> , 40, 1	2.1	0
110	A Geometric and Textural Model of the Colon as Ground Truth for Deep Learning-based 3D-reconstruction. <i>Informatik Aktuell</i> , <b>2021</b> , 298-303	0.3	2
109	Semiautomated 3D Root Segmentation and Evaluation Based on X-Ray CT Imagery. <i>Plant Phenomics</i> , <b>2021</b> , 2021, 8747930	7	8
108	Initial experiments of eye-tracking during Alassisted polyp-detection in colonoscopy. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 145-149	0.5	
107	Electromagnets for an endoscopic anastomosis tool in the colon. <i>Current Directions in Biomedical Engineering</i> , <b>2021</b> , 7, 39-42	0.5	
106	Robust Slide Cartography in Colon Cancer Histology. <i>Informatik Aktuell</i> , <b>2021</b> , 229-234	0.3	0
105	A Concept for Context Awareness in Smart Environments. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 380-383	0.5	

104	Deep-learning based reconstruction of the stomach from monoscopic video data. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 44-47	0.5	
103	Evaluation of HRV estimation algorithms from PPG data using neural networks. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 505-509	0.5	3
102	Haptic Rendering of Soft-Tissue for Training Surgical Procedures at the Larynx. <i>Informatik Aktuell</i> , <b>2020</b> , 342-347	0.3	
101	First results of computer-enhanced optical diagnosis of bladder cancer. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 246-249	0.5	0
100	CT-Based Non-Destructive Quantification of 3D-Printed Hydrogel Implants. <i>Informatik Aktuell</i> , <b>2020</b> , 119-124	0.3	
99	Retrospective Color Shading Correction for Endoscopic Images. <i>Informatik Aktuell</i> , <b>2020</b> , 14-19	0.3	
98	Artificial Intelligence-Based Polyp Detection in Colonoscopy: Where Have We Been, Where Do We Stand, and Where Are We Headed?. <i>Visceral Medicine</i> , <b>2020</b> , 36, 428-438	2.4	5
97	Force-feedback assisted and virtual fixtures based K-wire drilling simulation. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 114, 103473	7	5
96	Automated polyp detection in the colorectum: a prospective study (with videos). <i>Gastrointestinal Endoscopy</i> , <b>2019</b> , 89, 576-582.e1	5.2	64
95	Co-staining of microRNAs and their target proteins by miRNA in situ hybridization and immunohistochemistry on prostate cancer tissue microarrays. <i>Laboratory Investigation</i> , <b>2019</b> , 99, 1527-1534 <sup>9</sup>	5.9	1534 <sup>9</sup>
94	Automatic Detection of Tumor Buds in Pan-Cytokeratin Stained Colorectal Cancer Sections by a Hybrid Image Analysis Approach. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 83-90	0.9	6
93	Automated detection of bone splinters in DEXA phantoms using deep neural networks. <i>Current Directions in Biomedical Engineering</i> , <b>2019</b> , 5, 281-283	0.5	1
92	Computer Aided Detection of Polyps in Whitelight- Colonoscopy Images using Deep Neural Networks. <i>Current Directions in Biomedical Engineering</i> , <b>2019</b> , 5, 231-234	0.5	15
91	Interactive Image Segmentation for Cochlea Implant Planning based on DVT Data. <i>Current Directions in Biomedical Engineering</i> , <b>2019</b> , 5, 413-415	0.5	0
90	Force-feedback-assisted Bone Drilling Simulation Based on CT Data. <i>Informatik Aktuell</i> , <b>2018</b> , 291-296	0.3	
89	Stitching Pathological Tissue Images using DOP Feature Tracking. <i>Informatik Aktuell</i> , <b>2018</b> , 322-327	0.3	1
88	IFN- $\beta$ response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. <i>Biochemical Journal</i> , <b>2018</b> , 475, 2955-2967	3.8	9
87	CT-basiertes virtuelles Fr $\ddot{u}$ hen am Felsenbein. <i>Informatik Aktuell</i> , <b>2018</b> , 176-181	0.3	

86	Digital Mapping of the Urinary Bladder: Potential for Standardized Cystoscopy Reports. <i>Urology</i> , <b>2017</b> , 104, 235-241	1.6	11
85	Automated plasmodia recognition in microscopic images for diagnosis of malaria using convolutional neural networks <b>2017</b> ,		1
84	Semi-automated delineation of breast cancer tumors and subsequent materialization using three-dimensional printing (rapid prototyping). <i>Journal of Surgical Oncology</i> , <b>2017</b> , 115, 238-242	2.8	8
83	Using simulated fluorescence cell micrographs for the evaluation of cell image segmentation algorithms. <i>BMC Bioinformatics</i> , <b>2017</b> , 18, 176	3.6	8
82	Using automated texture features to determine the probability for masking of a tumor on mammography, but not ultrasound. <i>European Journal of Medical Research</i> , <b>2017</b> , 22, 30	4.8	4
81	Analysis of <i>Corynebacterium diphtheriae</i> macrophage interaction: Dispensability of corynomycolic acids for inhibition of phagolysosome maturation and identification of a new gene involved in synthesis of the corynomycolic acid layer. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180105	3.7	12
80	Automated morphological analysis of bone marrow cells in microscopic images for diagnosis of leukemia: nucleus-plasma separation and cell classification using a hierarchical tree model of hematopoiesis <b>2016</b> ,		3
79	Stitching and Surface Reconstruction From Endoscopic Image Sequences: A Review of Applications and Methods. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 304-21	7.2	50
78	The killing of macrophages by <i>Corynebacterium ulcerans</i> . <i>Virulence</i> , <b>2016</b> , 7, 45-55	4.7	12
77	Shading correction for endoscopic images using principal color components. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 397-405	3.9	6
76	The Tax-Inducible Actin-Bundling Protein Fascin Is Crucial for Release and Cell-to-Cell Transmission of Human T-Cell Leukemia Virus Type 1 (HTLV-1). <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005916	7.6	20
75	Automatic Detection of Relevant Regions for the Morphological Analysis of Bone Marrow Slides. <i>Informatik Aktuell</i> , <b>2016</b> , 272-276	0.3	
74	Combining Active Contours and Active Shapes for Segmentation of Fluorescently Stained Cells. <i>Informatik Aktuell</i> , <b>2016</b> , 122-127	0.3	
73	Basic Statistics of SIFT Features for Texture Analysis. <i>Informatik Aktuell</i> , <b>2016</b> , 98-103	0.3	3
72	The Clinical Data Intelligence Project. <i>Informatik-Spektrum</i> , <b>2016</b> , 39, 290-300	0.3	5
71	Dynamic Programming for the Segmentation of Bone Marrow Cells. <i>Informatik Aktuell</i> , <b>2015</b> , 359-364	0.3	1
70	Review of free software tools for image analysis of fluorescence cell micrographs. <i>Journal of Microscopy</i> , <b>2015</b> , 257, 39-53	1.9	69
69	Image based reconstruction for cystoscopy. <i>Current Directions in Biomedical Engineering</i> , <b>2015</b> , 1, 470-474	0.5	2

68	Automated high-throughput analysis of B cell spreading on immobilized antibodies with whole slide imaging. <i>Current Directions in Biomedical Engineering</i> , <b>2015</b> , 1, 224-227	0.5	3
67	The Cell-Shape-Wizard. <i>Informatik Aktuell</i> , <b>2015</b> , 341-346	0.3	
66	Automated classification of bone marrow cells in microscopic images for diagnosis of leukemia: a comparison of two classification schemes with respect to the segmentation quality <b>2015</b> ,		1
65	3D Shape Reconstruction of the Esophagus from Gastroscopic Video. <i>Informatik Aktuell</i> , <b>2015</b> , 173-178	0.3	
64	Panorama Mapping of the Esophagus from Gastroscopic Video. <i>Informatik Aktuell</i> , <b>2015</b> , 455-460	0.3	1
63	Using multi-channel level sets to measure the cytoplasmic localization of HCMV pUL97 in GFP-B-gal fusion constructs. <i>Journal of Virological Methods</i> , <b>2014</b> , 199, 61-7	2.6	2
62	13. Endoskopie <b>2014</b> , 455-470		
61	Panoramabildgebung der Blase: Vom Phantom zu präklinischen Experimenten. <i>Endoskopie Heute</i> , <b>2014</b> , 27, 146-150		2
60	A new ex vivo beating heart model to investigate the application of heart valve performance tools with a high-speed camera. <i>ASAIO Journal</i> , <b>2014</b> , 60, 38-43	3.6	5
59	Lokalisierung von Knochenmarkzellen für die automatisierte morphologische Analyse von Knochenmarkpräparaten. <i>Informatik Aktuell</i> , <b>2014</b> , 403-408	0.3	3
58	Enhancing automated micrograph-based evaluation of LPS-stimulated macrophage spreading. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2013</b> , 83, 409-18	4.6	2
57	A graph-based approach for local and global panorama imaging in cystoscopy <b>2013</b> ,		8
56	Cell Simulation for Validation of Cell Micrograph Evaluation Algorithms. <i>Biomedizinische Technik</i> , <b>2013</b> , 58 Suppl 1,	1.3	3
55	Approaches to automatic parameter fitting in a microscopy image segmentation pipeline: An exploratory parameter space analysis. <i>Journal of Pathology Informatics</i> , <b>2013</b> , 4, S5	4.4	5
54	Viewpoints on Medical Image Processing: From Science to Application. <i>Current Medical Imaging</i> , <b>2013</b> , 9, 79-88	1.2	13
53	Characterizing mammographic images by using generic texture features. <i>Breast Cancer Research</i> , <b>2012</b> , 14, R59	8.3	51
52	Association of mammographic density with the proliferation marker Ki-67 in a cohort of patients with invasive breast cancer. <i>Breast Cancer Research and Treatment</i> , <b>2012</b> , 135, 885-92	4.4	30
51	Laryngoscopic Image Stitching for View Enhancement and Documentation [First Experiences. <i>Biomedizinische Technik</i> , <b>2012</b> , 57,	1.3	5

50	Association of mammographic density with hormone receptors in invasive breast cancers: results from a case-only study. <i>International Journal of Cancer</i> , <b>2012</b> , 131, 2643-9	7.5	39
49	Subjective assessment of ovarian masses using pattern recognition: the impact of experience on diagnostic performance and interobserver variability. <i>Archives of Gynecology and Obstetrics</i> , <b>2012</b> , 285, 1663-9	2.5	12
48	Correlates of mammographic density in B-mode ultrasound and real time elastography. <i>European Journal of Cancer Prevention</i> , <b>2012</b> , 21, 343-9	2	6
47	Nuclear import of isoforms of the cytomegalovirus kinase pUL97 is mediated by differential activity of NLS1 and NLS2 both acting through classical importin-binding. <i>Journal of General Virology</i> , <b>2012</b> , 93, 1756-1768	4.9	18
46	Computer-assisted diagnosis in colposcopy: results of a preliminary experiment?. <i>Acta Cytologica</i> , <b>2012</b> , 56, 554-9	3	6
45	Comparison of Methods for Splitting of Touching and Overlapping Macrophages in Fluorescent Micrographs. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 456-464	0.9	
44	Measurement of TLR-Induced Macrophage Spreading by Automated Image Analysis: Differential Role of Myd88 and MAPK in Early and Late Responses. <i>Frontiers in Physiology</i> , <b>2011</b> , 2, 71	4.6	21
43	Mammographic density as a risk factor for breast cancer in a German case-control study. <i>European Journal of Cancer Prevention</i> , <b>2011</b> , 20, 1-8	2	47
42	Comparison of parameter-adapted segmentation methods for fluorescence micrographs. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2011</b> , 79, 933-45	4.6	12
41	Two isoforms of the protein kinase pUL97 of human cytomegalovirus are differentially regulated in their nuclear translocation. <i>Journal of General Virology</i> , <b>2011</b> , 92, 638-49	4.9	30
40	Using multimodal information for the segmentation of fluorescent micrographs with application to virology and microbiology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6487-90	0.9	5
39	Digital Kymography for the Analysis of the Opening and Closure Intervals of Heart Valves. <i>Informatik Aktuell</i> , <b>2011</b> , 144-148	0.3	2
38	HemaCAM IA Computer Assisted Microscopy System for Hematology <b>2011</b> , 233-242		4
37	Visual Computing at the IIS: From Life Sciences to Industrial Applications <b>2011</b> , 227-232		
36	Spatial orientation in transluminal surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , <b>2010</b> , 19, 262-73	2.1	5
35	Contour tracing for segmentation of mammographic masses. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 5299-315	3.8	13
34	Computer-assisted diagnosis for precancerous lesions in the esophagus. <i>Methods of Information in Medicine</i> , <b>2009</b> , 48, 324-30	1.5	12
33	Texture-based computer-assisted diagnosis for fiberoptic images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 3735-8	0.9	1

32	Clinical evaluation of Endorientation: Gravity related rectification for endoscopic images <b>2009</b> ,		3
31	Endoscopic orientation correction. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 459-66	0.9	13
30	Image Segmentation of Cell Nuclei based on Classification in the Color Space. <i>IFMBE Proceedings</i> , <b>2009</b> , 613-616	0.2	2
29	Segmentation of leukocytes and erythrocytes in blood smear images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 3075-8	0.9	27
28	New Structured Illumination Technique for the Inspection of High-Reflective Surfaces: Application for the Detection of Structural Defects without any Calibration Procedures. <i>Eurasip Journal on Image and Video Processing</i> , <b>2008</b> , 2008, 1-14	2.5	8
27	Boundary-precise segmentation of nucleus and plasma of leukocytes <b>2008</b> ,		2
26	Efficient large scale image stitching for virtual microscopy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 4019-23	0.9	6
25	A Knowledge-Based System for the Computer Assisted Diagnosis of Endoscopic Images. <i>Informatik Aktuell</i> , <b>2008</b> , 272-276	0.3	1
24	Aufnahme, Analyse und Visualisierung von Bewegungen nativer Herzklappen in-vitro. <i>Informatik Aktuell</i> , <b>2008</b> , 328-332	0.3	1
23	The prediction of breast cancer biopsy outcomes using two CAD approaches that both emphasize an intelligible decision process. <i>Medical Physics</i> , <b>2007</b> , 34, 4164-72	4.4	126
22	An evaluation and comparison of the performance of state of the art approaches for the detection of spiculated masses in mammograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2007</b> , 2007, 3773-6	0.9	1
21	High-Speed-Camera Recordings and Image Sequence Analysis of Moving Heart-Valves: Experiments and First Results <b>2007</b> , 169-174		3
20	Complete Digital Iconic and Textual Annotation for Mammography <b>2007</b> , 91-95		0
19	Cognition Network Technology for Automated Holistic Analysis in Mammography <b>2007</b> , 282-287		
18	Physically motivated enhancement of color images for fiber endoscopy <b>2007</b> , 10, 360-7		4
17	A spectral color correction framework for medical applications. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2006</b> , 53, 254-65	5	5
16	Automatic adaptive enhancement for images obtained with fiberoptic endoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2006</b> , 53, 2035-46	5	38
15	Camera Calibration from Fiberoptic Views with Accuracy Evaluation <b>2006</b> , 424-428		5

14	The need of annotation for reference image data sets. <i>International Congress Series</i> , <b>2005</b> , 1281, 453-458		2
13	Illumination Invariant Color Texture Analysis Based on Sum- and Difference-Histograms. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 17-24	0.9	6
12	High-speed imaging: applications and development. <i>Logopedics Phoniatrics Vocology</i> , <b>2003</b> , 28, 133-9	1.3	37
11	Establishing an International Reference Image Database for Research and Development in Medical Image Processing. <i>Informatik Aktuell</i> , <b>2003</b> , 363-367	0.3	1
10	Automatic Ischemic Stroke Segmentation Using Various Techniques <b>2003</b> , 498-503		1
9	Computerbasierte Bewegungsanalyse von Stimmlippenschwingungen. <i>Informatik Aktuell</i> , <b>2002</b> , 271-274	0.3	
8	Functional imaging of vocal fold vibration: digital multislice high-speed kymography. <i>Journal of Voice</i> , <b>2000</b> , 14, 422-42	1.9	100
7	Imaging of vocal fold vibration by digital multi-plane kymography. <i>Computerized Medical Imaging and Graphics</i> , <b>1999</b> , 23, 323-30	7.6	40
6	High-speed digital imaging of neoglottic vibration after total laryngectomy. <i>JAMA Otolaryngology</i> , <b>1999</b> , 125, 891-7		26
5	Phonation onset: vocal fold modeling and high-speed glottography. <i>Journal of the Acoustical Society of America</i> , <b>1998</b> , 104, 464-70	2.2	33
4	High-speed imaging and image processing in voice disorders <b>1996</b> ,		3
3	Direct evaluation of high-speed recordings of vocal fold vibrations. <i>Folia Phoniatrica Et Logopaedica</i> , <b>1996</b> , 48, 163-70	1.5	65
2	Recording, processing, and analysis of digital high-speed sequences in glottography. <i>Machine Vision and Applications</i> , <b>1995</b> , 8, 399-404	2.8	63
1	Recording, processing, and analysis of digital high-speed sequences in glottography <b>1995</b> , 8, 399		8