

Thomas Wittenberg

List of Publications by Citations

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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.

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	The prediction of breast cancer biopsy outcomes using two CAD approaches that both emphasize an intelligible decision process. <i>Medical Physics</i> , 2007 , 34, 4164-72	4.4	126
120	Functional imaging of vocal fold vibration: digital multislice high-speed kymography. <i>Journal of Voice</i> , 2000 , 14, 422-42	1.9	100
119	Review of free software tools for image analysis of fluorescence cell micrographs. <i>Journal of Microscopy</i> , 2015 , 257, 39-53	1.9	69
118	Direct evaluation of high-speed recordings of vocal fold vibrations. <i>Folia Phoniatrica Et Logopaedica</i> , 1996 , 48, 163-70	1.5	65
117	Automated polyp detection in the colorectum: a prospective study (with videos). <i>Gastrointestinal Endoscopy</i> , 2019 , 89, 576-582.e1	5.2	64
116	Recording, processing, and analysis of digital high-speed sequences in glottography. <i>Machine Vision and Applications</i> , 1995 , 8, 399-404	2.8	63
115	Characterizing mammographic images by using generic texture features. <i>Breast Cancer Research</i> , 2012 , 14, R59	8.3	51
114	Stitching and Surface Reconstruction From Endoscopic Image Sequences: A Review of Applications and Methods. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 304-21	7.2	50
113	Mammographic density as a risk factor for breast cancer in a German case-control study. <i>European Journal of Cancer Prevention</i> , 2011 , 20, 1-8	2	47
112	Imaging of vocal fold vibration by digital multi-plane kymography. <i>Computerized Medical Imaging and Graphics</i> , 1999 , 23, 323-30	7.6	40
111	Association of mammographic density with hormone receptors in invasive breast cancers: results from a case-only study. <i>International Journal of Cancer</i> , 2012 , 131, 2643-9	7.5	39
110	Automatic adaptive enhancement for images obtained with fiberoptic endoscopes. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2035-46	5	38
109	High-speed imaging: applications and development. <i>Logopedics Phoniatrics Vocology</i> , 2003 , 28, 133-9	1.3	37
108	Phonation onset: vocal fold modeling and high-speed glottography. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 464-70	2.2	33
107	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> , 2012 , 135, 885-92	4.4	30
106	Two isoforms of the protein kinase pUL97 of human cytomegalovirus are differentially regulated in their nuclear translocation. <i>Journal of General Virology</i> , 2011 , 92, 638-49	4.9	30
105	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> , 2008 , 2008, 3075-8	0.9	27

104	High-speed digital imaging of neoglottic vibration after total laryngectomy. <i>JAMA Otolaryngology</i> , 1999 , 125, 891-7		26
103	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> , 2011 , 2, 71	4.6	21
102	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> , 2016 , 12, e1005916	7.6	20
101	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> , 2012 , 93, 1756-1768	4.9	18
100	Computer Aided Detection of Polyps in Whitelight- Colonoscopy Images using Deep Neural Networks. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 231-234	0.5	15
99	Viewpoints on Medical Image Processing: From Science to Application. <i>Current Medical Imaging</i> , 2013 , 9, 79-88	1.2	13
98	Contour tracing for segmentation of mammographic masses. <i>Physics in Medicine and Biology</i> , 2010 , 55, 5299-315	3.8	13
97	Endoscopic orientation correction. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 459-66	0.9	13
96	The killing of macrophages by <i>Corynebacterium ulcerans</i> . <i>Virulence</i> , 2016 , 7, 45-55	4.7	12
95	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> , 2012 , 285, 1663-9	2.5	12
94	Comparison of parameter-adapted segmentation methods for fluorescence micrographs. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011 , 79, 933-45	4.6	12
93	Computer-assisted diagnosis for precancerous lesions in the esophagus. <i>Methods of Information in Medicine</i> , 2009 , 48, 324-30	1.5	12
92	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> , 2017 , 12, e0180105	3.7	12
91	Digital Mapping of the Urinary Bladder: Potential for Standardized Cystoscopy Reports. <i>Urology</i> , 2017 , 104, 235-241	1.6	11
90	Co-staining of microRNAs and their target proteins by miRNA in situ hybridization and immunohistochemistry on prostate cancer tissue microarrays. <i>Laboratory Investigation</i> , 2019 , 99, 1527-1534	5.9	9
89	IFN- β response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. <i>Biochemical Journal</i> , 2018 , 475, 2955-2967	3.8	9
88	Semi-automated delineation of breast cancer tumors and subsequent materialization using three-dimensional printing (rapid prototyping). <i>Journal of Surgical Oncology</i> , 2017 , 115, 238-242	2.8	8
87	Using simulated fluorescence cell micrographs for the evaluation of cell image segmentation algorithms. <i>BMC Bioinformatics</i> , 2017 , 18, 176	3.6	8

86	A graph-based approach for local and global panorama imaging in cystoscopy 2013 ,		8
85	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> , 2008 , 2008, 1-14	2.5	8
84	Recording, processing, and analysis of digital high-speed sequences in glottography 1995 , 8, 399		8
83	Semiautomated 3D Root Segmentation and Evaluation Based on X-Ray CT Imagery. <i>Plant Phenomics</i> , 2021 , 2021, 8747930	7	8
82	Shading correction for endoscopic images using principal color components. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 397-405	3.9	6
81	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> , 2019 , 83-90	0.9	6
80	Correlates of mammographic density in B-mode ultrasound and real time elastography. <i>European Journal of Cancer Prevention</i> , 2012 , 21, 343-9	2	6
79	Computer-assisted diagnosis in colposcopy: results of a preliminary experiment?. <i>Acta Cytologica</i> , 2012 , 56, 554-9	3	6
78	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> , 2008 , 2008, 4019-23	0.9	6
77	Illumination Invariant Color Texture Analysis Based on Sum- and Difference-Histograms. <i>Lecture Notes in Computer Science</i> , 2005 , 17-24	0.9	6
76	Force-feedback assisted and virtual fixtures based K-wire drilling simulation. <i>Computers in Biology and Medicine</i> , 2019 , 114, 103473	7	5
75	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> , 2014 , 60, 38-43	3.6	5
74	Laryngoscopic Image Stitching for View Enhancement and Documentation [First Experiences. <i>Biomedizinische Technik</i> , 2012 , 57,	1.3	5
73	Approaches to automatic parameter fitting in a microscopy image segmentation pipeline: An exploratory parameter space analysis. <i>Journal of Pathology Informatics</i> , 2013 , 4, S5	4.4	5
72	Spatial orientation in transluminal surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2010 , 19, 262-73	2.1	5
71	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> , 2011 , 2011, 6487-90	0.9	5
70	A spectral color correction framework for medical applications. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 254-65	5	5
69	Artificial Intelligence-Based Polyp Detection in Colonoscopy: Where Have We Been, Where Do We Stand, and Where Are We Headed?. <i>Visceral Medicine</i> , 2020 , 36, 428-438	2.4	5

68	The Clinical Data Intelligence Project. <i>Informatik-Spektrum</i> , 2016 , 39, 290-300	0.3	5
67	Camera Calibration from Fiberscopic Views with Accuracy Evaluation 2006 , 424-428		5
66	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> , 2017 , 22, 30	4.8	4
65	Physically motivated enhancement of color images for fiber endoscopy 2007 , 10, 360-7		4
64	HemaCAM DA Computer Assisted Microscopy System for Hematology 2011 , 233-242		4
63	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 2016 ,		3
62	Automated high-throughput analysis of B cell spreading on immobilized antibodies with whole slide imaging. <i>Current Directions in Biomedical Engineering</i> , 2015 , 1, 224-227	0.5	3
61	Cell Simulation for Validation of Cell Micrograph Evaluation Algorithms. <i>Biomedizinische Technik</i> , 2013 , 58 Suppl 1,	1.3	3
60	Clinical evaluation of Endorientation: Gravity related rectification for endoscopic images 2009 ,		3
59	High-speed imaging and image processing in voice disorders 1996 ,		3
58	High-Speed-Camera Recordings and Image Sequence Analysis of Moving Heart-Valves: Experiments and First Results 2007 , 169-174		3
57	Evaluation of HRV estimation algorithms from PPG data using neural networks. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 505-509	0.5	3
56	Lokalisierung von Knochenmarkzellen ffr die automatisierte morphologische Analyse von Knochenmarkprparaten. <i>Informatik Aktuell</i> , 2014 , 403-408	0.3	3
55	Basic Statistics of SIFT Features for Texture Analysis. <i>Informatik Aktuell</i> , 2016 , 98-103	0.3	3
54	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> , 2014 , 199, 61-7	2.6	2
53	Enhancing automated micrograph-based evaluation of LPS-stimulated macrophage spreading. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013 , 83, 409-18	4.6	2
52	Image based reconstruction for cystoscopy. <i>Current Directions in Biomedical Engineering</i> , 2015 , 1, 470-474.	0.5	2
51	Panoramabildgebung der Blase: Vom Phantom zu prllinischen Experimenten. <i>Endoskopie Heute</i> , 2014 , 27, 146-150		2

50	Boundary-precise segmentation of nucleus and plasma of leukocytes 2008 ,		2
49	The need of annotation for reference image data sets. <i>International Congress Series</i> , 2005 , 1281, 453-458		2
48	Digital Kymography for the Analysis of the Opening and Closure Intervals of Heart Valves. <i>Informatik Aktuell</i> , 2011 , 144-148	0.3	2
47	Image Segmentation of Cell Nuclei based on Classification in the Color Space. <i>IFMBE Proceedings</i> , 2009 , 613-616	0.2	2
46	A Geometric and Textural Model of the Colon as Ground Truth for Deep Learning-based 3D-reconstruction. <i>Informatik Aktuell</i> , 2021 , 298-303	0.3	2
45	Automated plasmodia recognition in microscopic images for diagnosis of malaria using convolutional neural networks 2017 ,		1
44	Dynamic Programming for the Segmentation of Bone Marrow Cells. <i>Informatik Aktuell</i> , 2015 , 359-364	0.3	1
43	Stitching Pathological Tissue Images using DOP Feature Tracking. <i>Informatik Aktuell</i> , 2018 , 322-327	0.3	1
42	Automated detection of bone splinters in DEXA phantoms using deep neural networks. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 281-283	0.5	1
41	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 2015 ,		1
40	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> , 2009 , 2009, 3735-8	0.9	1
39	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> , 2007 , 2007, 3735-8	0.9	1
38	Partial 3D-reconstruction of the colon from monoscopic colonoscopy videos using shape-from-motion and deep learning. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 335-338	0.5	1
37	A Knowledge-Based System for the Computer Assisted Diagnosis of Endoscopic Images. <i>Informatik Aktuell</i> , 2008 , 272-276	0.3	1
36	Aufnahme, Analyse und Visualisierung von Bewegungen nativer Herzklappen in-vitro. <i>Informatik Aktuell</i> , 2008 , 328-332	0.3	1
35	Establishing an International Reference Image Database for Research and Development in Medical Image Processing. <i>Informatik Aktuell</i> , 2003 , 363-367	0.3	1
34	Automatic Ischemic Stroke Segmentation Using Various Techniques 2003 , 498-503		1
33	Panorama Mapping of the Esophagus from Gastroscopic Video. <i>Informatik Aktuell</i> , 2015 , 455-460	0.3	1

32	Fast whole-slide cartography in colon cancer histology using superpixels and CNN classification.. <i>Journal of Medical Imaging</i> , 2022 , 9, 027501	2.6	1
31	Towards computer aided diagnosis of infective endocarditis in whole-slide images of heart valve tissue using FISH. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 468-471	0.5	0
30	Complete Digital Iconic and Textual Annotation for Mammography 2007 , 91-95		0
29	First results of computer-enhanced optical diagnosis of bladder cancer. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 246-249	0.5	0
28	Panoramic Imaging Assessment of Different Bladder Phantoms - An Evaluation Study. <i>Urology</i> , 2021 , 156, e103-e110	1.6	0
27	Interactive Image Segmentation for Cochlea Implant Planning based on DVT Data. <i>Current Directions in Biomedical Engineering</i> , 2019 , 5, 413-415	0.5	0
26	Exploring Flood Filling Networks for Instance Segmentation of XXL-Volumetric and Bulk Material CT Data. <i>Journal of Nondestructive Evaluation</i> , 2021 , 40, 1	2.1	0
25	Robust Slide Cartography in Colon Cancer Histology. <i>Informatik Aktuell</i> , 2021 , 229-234	0.3	0
24	Force-feedback-assisted Bone Drilling Simulation Based on CT Data. <i>Informatik Aktuell</i> , 2018 , 291-296	0.3	
23	The Cell-Shape-Wizard. <i>Informatik Aktuell</i> , 2015 , 341-346	0.3	
22	13. Endoskopie 2014 , 455-470		
21	Acquisition of Semantics for AI-based Applications in Medical Technologies. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 515-518	0.5	
20	Multispectral single chip reconstruction using DNNs with application to open neurosurgery. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 37-40	0.5	
19	Pandemic Robot. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 601-604	0.5	
18	The Online Expert-Panel Review of a Novel Web-seminar Format. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 453-455	0.5	
17	Cognition Network Technology for Automated Holistic Analysis in Mammography 2007 , 282-287		
16	A Concept for Context Awareness in Smart Environments. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 380-383	0.5	
15	Deep-learning based reconstruction of the stomach from monoscopic video data. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 44-47	0.5	

- 14 Computerbasierte Bewegungsanalyse von Stimmlippenschwingungen. *Informatik Aktuell*, **2002**, 271-274 0.3
- 13 CT-basiertes virtuelles Fräßen am Felsenbein. *Informatik Aktuell*, **2018**, 176-181 0.3
- 12 Haptic Rendering of Soft-Tissue for Training Surgical Procedures at the Larynx. *Informatik Aktuell*, **2020**, 342-347 0.3
- 11 CT-Based Non-Destructive Quantification of 3D-Printed Hydrogel Implants. *Informatik Aktuell*, **2020**, 119-124 0.3
- 10 Retrospective Color Shading Correction for Endoscopic Images. *Informatik Aktuell*, **2020**, 14-19 0.3
- 9 3D Shape Reconstruction of the Esophagus From Gastroscopic Video. *Informatik Aktuell*, **2015**, 173-178 0.3
- 8 Automatic Detection of Relevant Regions for the Morphological Analysis of Bone Marrow Slides. *Informatik Aktuell*, **2016**, 272-276 0.3
- 7 Combining Active Contours and Active Shapes for Segmentation of Fluorescently Stained Cells. *Informatik Aktuell*, **2016**, 122-127 0.3
- 6 Visual Computing at the IIS: From Life Sciences to Industrial Applications **2011**, 227-232
- 5 Comparison of Methods for Splitting of Touching and Overlapping Macrophages in Fluorescent Micrographs. *Lecture Notes in Computer Science*, **2012**, 456-464 0.9
- 4 Initial experiments of eye-tracking during AI-assisted polyp-detection in colonoscopy. *Current Directions in Biomedical Engineering*, **2021**, 7, 145-149 0.5
- 3 Electromagnets for an endoscopic anastomosis tool in the colon. *Current Directions in Biomedical Engineering*, **2021**, 7, 39-42 0.5
- 2 3D Reconstruction of the Colon from Monocular Sequences Evaluation by 3D-printed Phantom Data. *Informatik Aktuell*, **2022**, 141-146 0.3
- 1 MitoDet: Simple and Robust Mitosis Detection. *Lecture Notes in Computer Science*, **2022**, 53-57 0.9