

# Jens Rittscher

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,894  
citations

304701

22  
h-index

223791

46  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3909  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly multiplexed single-cell analysis of formalin-fixed, paraffin-embedded cancer tissue. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11982-11987.	7.1	605
2	Shape and Appearance Context Modeling. , 2007, , .		357
3	Image-based consensus molecular subtype (imCMS) classification of colorectal cancer using deep learning. Gut, 2021, 70, 544-554.	12.1	148
4	Learning and classification of complex dynamics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 1016-1034.	13.9	144
5	Appearance-based person reidentification in camera networks: problem overview and current approaches. Journal of Ambient Intelligence and Humanized Computing, 2011, 2, 127-151.	4.9	142
6	Coupled minimum-cost flow cell tracking for high-throughput quantitative analysis. Medical Image Analysis, 2011, 15, 650-668.	11.6	124
7	Spatio-temporal cell cycle phase analysis using level sets and fast marching methods. Medical Image Analysis, 2009, 13, 143-155.	11.6	117
8	Precision immunoprofiling by image analysis and artificial intelligence. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2019, 474, 511-522.	2.8	101
9	An HMM-based segmentation method for traffic monitoring movies. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 1291-1296.	13.9	84
10	The use of digital pathology and image analysis in clinical trials. Journal of Pathology: Clinical Research, 2019, 5, 81-90.	3.0	71
11	Deep learning for detection and segmentation of artefact and disease instances in gastrointestinal endoscopy. Medical Image Analysis, 2021, 70, 102002.	11.6	67
12	FANet: A Feedback Attention Network for Improved Biomedical Image Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9375-9388.	11.3	67
13	Analysis of live cell images: Methods, tools and opportunities. Methods, 2017, 115, 65-79.	3.8	65
14	Characterization of Biological Processes through Automated Image Analysis. Annual Review of Biomedical Engineering, 2010, 12, 315-344.	12.3	64
15	Artificial intelligence-based morphological fingerprinting of megakaryocytes: a new tool for assessing disease in MPN patients. Blood Advances, 2020, 4, 3284-3294.	5.2	51
16	Digital pathology and artificial intelligence will be key to supporting clinical and academic cellular pathology through COVID-19 and future crises: the PathLAKE consortium perspective. Journal of Clinical Pathology, 2021, 74, 443-447.	2.0	49
17	An objective comparison of detection and segmentation algorithms for artefacts in clinical endoscopy. Scientific Reports, 2020, 10, 2748.	3.3	41
18	A deep learning framework for quality assessment and restoration in video endoscopy. Medical Image Analysis, 2021, 68, 101900.	11.6	41

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19	Visualization of T Cell Migration in the Spleen Reveals a Network of Perivascular Pathways that Guide Entry into T Zones. <i>Immunity</i> , 2020, 52, 794-807.e7.	14.3	37
20	Role of digital pathology in diagnostic histopathology in the response to COVID-19: results from a survey of experience in a UK tertiary referral hospital. <i>Journal of Clinical Pathology</i> , 2021, 74, 129-132.	2.0	34
21	Towards the automatic analysis of complex human body motions. <i>Image and Vision Computing</i> , 2002, 20, 905-916.	4.5	31
22	Spatio-temporal cell segmentation and tracking for automated screening. , 2008, , .		31
23	Improving Whole Slide Segmentation Through Visual Context - A Systematic Study. <i>Lecture Notes in Computer Science</i> , 2018, , 192-200.	1.3	27
24	Automated classification of normal and Stargardt disease optical coherence tomography images using deep learning. <i>Acta Ophthalmologica</i> , 2020, 98, e715-e721.	1.1	24
25	A Pilot Study on Automatic Three-Dimensional Quantification of Barrett's Esophagus for Risk Stratification and Therapy Monitoring. <i>Gastroenterology</i> , 2021, 161, 865-878.e8.	1.3	21
26	Motion sensing superpixels (MOSES) is a systematic computational framework to quantify and discover cellular motion phenotypes. <i>ELife</i> , 2019, 8, .	6.0	21
27	Mathematical modelling of animate and intentional motion. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 475-490.	4.0	20
28	Coupled Minimum-Cost Flow Cell Tracking. <i>Lecture Notes in Computer Science</i> , 2009, 21, 374-385.	1.3	20
29	Automated quality assessment of large digitised histology cohorts by artificial intelligence. <i>Scientific Reports</i> , 2022, 12, 5002.	3.3	19
30	An intelligent video framework for homeland protection. , 2007, , .		17
31	The Potential of Artificial Intelligence to Detect Lymphovascular Invasion in Testicular Cancer. <i>Cancers</i> , 2021, 13, 1325.	3.7	17
32	Digitally adjusting chromogenic dye proportions in brightfield microscopy images. <i>Journal of Microscopy</i> , 2012, 245, 319-330.	1.8	16
33	Artificial intelligence for advance requesting of immunohistochemistry in diagnostically uncertain prostate biopsies. <i>Modern Pathology</i> , 2021, 34, 1780-1794.	5.5	16
34	Implementation of digital pathology into diagnostic practice: perceptions and opinions of histopathology trainees and implications for training. <i>Journal of Clinical Pathology</i> , 2020, 73, 223-227.	2.0	14
35	A model change detection approach to dynamic scene modeling. , 2009, , .		11
36	<sc>KCML</sc> : a machine learning framework for inference of multi-scale gene functions from genetic perturbation screens. <i>Molecular Systems Biology</i> , 2020, 16, e9083.	7.2	11

#	ARTICLE	IF	CITATIONS
37	Cell segmentation and classification by hierarchical supervised shape ranking. , 2015, , .		10
38	Cell segmentation and classification via unsupervised shape ranking. , 2013, , .		9
39	Ink Removal from Histopathology Whole Slide Images by Combining Classification, Detection and Image Generation Models. , 2019, , .		9
40	Automated Training Data Generation for Microscopy Focus Classification. Lecture Notes in Computer Science, 2010, 13, 446-453.	1.3	9
41	View adaptive detection and distributed site wide tracking. , 2007, , .		8
42	DeepScratch: Single-cell based topological metrics of scratch wound assays. Computational and Structural Biotechnology Journal, 2020, 18, 2501-2509.	4.1	8
43	Tumour irradiation combined with vascular-targeted photodynamic therapy enhances antitumour effects in pre-clinical prostate cancer. British Journal of Cancer, 2021, 125, 534-546.	6.4	8
44	Digital Pathology Transformation in a Supraregional Germ Cell Tumour Network. Diagnostics, 2021, 11, 2191.	2.6	8
45	Conv2Warp: An Unsupervised Deformable Image Registration with Continuous Convolution and Warping. Lecture Notes in Computer Science, 2019, , 489-497.	1.3	7
46	Identifying Nuclear Phenotypes Using Semi-supervised Metric Learning. Lecture Notes in Computer Science, 2011, 22, 398-410.	1.3	7
47	Detailed Molecular and Immune Marker Profiling of Archival Prostate Cancer Samples Reveals an Inverse Association between TMPRSS2:ERG Fusion Status and Immune Cell Infiltration. Journal of Molecular Diagnostics, 2020, 22, 652-669.	2.8	6
48	TRAIT2D: a Software for Quantitative Analysis of Single Particle Diffusion Data. F1000Research, 2021, 10, 838.	1.6	5
49	Identification of C. elegans Strains Using a Fully Convolutional Neural Network on Behavioural Dynamics. Lecture Notes in Computer Science, 2019, , 455-464.	1.3	5
50	Quantitative biological studies enabled by robust cell tracking. , 2011, , .		4
51	Monitoring cardiomyocyte motion in real time through image registration and time series analysis. , 2012, , .		4
52	Discovery of Rare Phenotypes in Cellular Images Using Weakly Supervised Deep Learning. , 2017, , .		4
53	Efficient Video Indexing for Monitoring Disease Activity and Progression in the Upper Gastrointestinal Tract. , 2019, , .		4
54	Protein Tracking By CNN-Based Candidate Pruning And Two-Step Linking With Bayesian Network. , 2019, , .		4

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55	MI-UNet: Improved Segmentation in Ureteroscopy. , 2020, , .		4
56	EndoUDA: A Modality Independent Segmentation Approach for Endoscopy Imaging. Lecture Notes in Computer Science, 2021, , 303-312.	1.3	4
57	Non-parametric Population Analysis of Cellular Phenotypes. Lecture Notes in Computer Science, 2011, 14, 343-351.	1.3	4
58	Towards quantifying the impact of cell boundary estimation on morphometric analysis for phenotypic screening. , 2015, , .		3
59	Single-Molecule Localization Microscopy Reconstruction Using Noise2Noise for Super-Resolution Imaging of Actin Filaments. , 2020, , .		3
60	Early Detection of Liver Fibrosis Using Graph Convolutional Networks. Lecture Notes in Computer Science, 2021, , 217-226.	1.3	3
61	DeepSplit: Segmentation of Microscopy Images Using Multi-task Convolutional Networks. Communications in Computer and Information Science, 2020, , 155-167.	0.5	3
62	Learning Cellular Phenotypes through Supervision. , 2021, 2021, 3592-3595.		3
63	Global probabilistic models for enhancing segmentation with convolutional networks. , 2018, , .		2
64	Artificial intelligence for colonoscopic polyp detection: High performance versus human nature. Journal of Gastroenterology and Hepatology (Australia), 2020, 35, 1663-1664.	2.8	2
65	Transcriptome and genome evolution during HER2-amplified breast neoplasia. Breast Cancer Research, 2021, 23, 73.	5.0	2
66	Sensorless adaptive optics for isoSTED nanoscopy. , 2018, , .		2
67	Characterization of Biological Motion Using Motion Sensing Superpixels. Bio-protocol, 2019, 9, e3365.	0.4	2
68	Additive Angular Margin Loss and Model Scaling Network for Optimised Colitis Scoring. , 2022, , .		2
69	Methods for monitoring cellular motion and function. , 2008, , .		1
70	Epithelial Cell Segmentation via Shape Ranking. Lecture Notes in Computational Vision and Biomechanics, 2014, , 315-338.	0.5	1
71	Towards the Identification of Histology Based Subtypes in Prostate Cancer. , 2019, , .		1
72	Multi-class Object Layout with Unsupervised Image Classification and Object Localization. Lecture Notes in Computer Science, 2011, , 573-585.	1.3	1

#	ARTICLE	IF	CITATIONS
73	Improving Pathological Distribution Measurements with Bayesian Uncertainty. Lecture Notes in Computer Science, 2020, , 61-70.	1.3	1
74	Validation Methods for Cell Cycle Analysis Algorithms in Confocal Fluorescence Images. , 2006, , .		0
75	LPSM: Fitting shape model by linear programming. , 2011, , .		0
76	Tissue segmentation and classification using graph-based unsupervised clustering. , 2012, , .		0
77	Capturing variations in nuclear phenotypes. Journal of Computational Science, 2019, 36, 101014.	2.9	0
78	Semantic Filtering Through Deep Source Separation on Microscopy Images. Lecture Notes in Computer Science, 2019, , 498-506.	1.3	0