

# Achim Hekler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4776978/publications.pdf>

Version: 2024-02-01

27  
papers

2,571  
citations

279798

23  
h-index

526287

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning outperformed 136 of 157 dermatologists in a head-to-head dermoscopic melanoma image classification task. <i>European Journal of Cancer</i> , 2019, 113, 47-54.	2.8	300
2	Skin Cancer Classification Using Convolutional Neural Networks: Systematic Review. <i>Journal of Medical Internet Research</i> , 2018, 20, e11936.	4.3	277
3	Deep neural networks are superior to dermatologists in melanoma image classification. <i>European Journal of Cancer</i> , 2019, 119, 11-17.	2.8	212
4	Superior skin cancer classification by the combination of human and artificial intelligence. <i>European Journal of Cancer</i> , 2019, 120, 114-121.	2.8	197
5	A convolutional neural network trained with dermoscopic images performed on par with 145 dermatologists in a clinical melanoma image classification task. <i>European Journal of Cancer</i> , 2019, 111, 148-154.	2.8	197
6	Deep learning outperformed 11 pathologists in the classification of histopathological melanoma images. <i>European Journal of Cancer</i> , 2019, 118, 91-96.	2.8	188
7	Pathologist-level classification of histopathological melanoma images with deep neural networks. <i>European Journal of Cancer</i> , 2019, 115, 79-83.	2.8	156
8	Systematic outperformance of 112 dermatologists in multiclass skin cancer image classification by convolutional neural networks. <i>European Journal of Cancer</i> , 2019, 119, 57-65.	2.8	134
9	Skin cancer classification via convolutional neural networks: systematic review of studies involving human experts. <i>European Journal of Cancer</i> , 2021, 156, 202-216.	2.8	115
10	Comparing artificial intelligence algorithms to 157 German dermatologists: the melanoma classification benchmark. <i>European Journal of Cancer</i> , 2019, 111, 30-37.	2.8	104
11	Artificial Intelligence in Skin Cancer Diagnostics: The Patients' Perspective. <i>Frontiers in Medicine</i> , 2020, 7, 233.	2.6	79
12	Gastrointestinal cancer classification and prognostication from histology using deep learning: Systematic review. <i>European Journal of Cancer</i> , 2021, 155, 200-215.	2.8	70
13	Combining CNN-based histologic whole slide image analysis and patient data to improve skin cancer classification. <i>European Journal of Cancer</i> , 2021, 149, 94-101.	2.8	57
14	Artificial Intelligence and Its Effect on Dermatologists' Accuracy in Dermoscopic Melanoma Image Classification: Web-Based Survey Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e18091.	4.3	45
15	Teledermatology: Comparison of Store-and-Forward Versus Live Interactive Video Conferencing. <i>Journal of Medical Internet Research</i> , 2018, 20, e11871.	4.3	44
16	Explainable artificial intelligence in skin cancer recognition: A systematic review. <i>European Journal of Cancer</i> , 2022, 167, 54-69.	2.8	42
17	Deep learning approach to predict lymph node metastasis directly from primary tumour histology in prostate cancer. <i>BJU International</i> , 2021, 128, 352-360.	2.5	37
18	Integration of deep learning-based image analysis and genomic data in cancer pathology: A systematic review. <i>European Journal of Cancer</i> , 2022, 160, 80-91.	2.8	37

#	ARTICLE	IF	CITATIONS
19	Hidden Variables in Deep Learning Digital Pathology and Their Potential to Cause Batch Effects: Prediction Model Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e23436.	4.3	36
20	Deep learning approach to predict sentinel lymph node status directly from routine histology of primary melanoma tumours. <i>European Journal of Cancer</i> , 2021, 154, 227-234.	2.8	36
21	Diagnostic performance of artificial intelligence for histologic melanoma recognition compared to 18 international expert pathologists. <i>Journal of the American Academy of Dermatology</i> , 2022, 86, 640-642.	1.2	35
22	Integrating Patient Data Into Skin Cancer Classification Using Convolutional Neural Networks: Systematic Review. <i>Journal of Medical Internet Research</i> , 2021, 23, e20708.	4.3	35
23	A benchmark for neural network robustness in skin cancer classification. <i>European Journal of Cancer</i> , 2021, 155, 191-199.	2.8	34
24	Robustness of convolutional neural networks in recognition of pigmented skin lesions. <i>European Journal of Cancer</i> , 2021, 145, 81-91.	2.8	32
25	Enhanced classifier training to improve precision of a convolutional neural network to identify images of skin lesions. <i>PLoS ONE</i> , 2019, 14, e0218713.	2.5	26
26	Overdiagnosis of melanoma – causes, consequences and solutions. <i>JDDG - Journal of the German Society of Dermatology</i> , 2020, 18, 1236-1243.	0.8	23
27	Reducing the Impact of Confounding Factors on Skin Cancer Classification via Image Segmentation: Technical Model Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e21695.	4.3	15