Henning MÃ¼ller

List of Publications by Year
in descending order

294	10,961	66234	40881
papers	citations	42	93
		h-index	g-index

311	311	311	9191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	3.6	1,869
2	A review of content-based image retrieval systems in medical applicationsâ€"clinical benefits and future directions. International Journal of Medical Informatics, 2004, 73, 1-23.	1.6	1,223
3	Electromyography data for non-invasive naturally-controlled robotic hand prostheses. Scientific Data, 2014, 1, 140053.	2.4	482
4	Deep Learning with Convolutional Neural Networks Applied to Electromyography Data: A Resource for the Classification of Movements for Prosthetic Hands. Frontiers in Neurorobotics, 2016, 10, 9.	1.6	436
5	Performance evaluation in content-based image retrieval: overview and proposals. Pattern Recognition Letters, 2001, 22, 593-601.	2.6	431
6	Comparison of six electromyography acquisition setups on hand movement classification tasks. PLoS ONE, 2017, 12, e0186132.	1.1	234
7	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	5.8	198
8	Characterization of a Benchmark Database for Myoelectric Movement Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 73-83.	2.7	193
9	Building a reference multimedia database for interstitial lung diseases. Computerized Medical Imaging and Graphics, 2012, 36, 227-238.	3.5	190
10	Three-dimensional solid texture analysis in biomedical imaging: Review and opportunities. Medical Image Analysis, 2014, 18, 176-196.	7.0	188
11	Building the Ninapro database: A resource for the biorobotics community. , 2012, , .		161
12	Large-scale retrieval for medical image analytics: A comprehensive review. Medical Image Analysis, 2018, 43, 66-84.	7.0	151
13	Movement Error Rate for Evaluation of Machine Learning Methods for sEMG-Based Hand Movement Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 735-744.	2.7	149
14	Control Capabilities of Myoelectric Robotic Prostheses by Hand Amputees: A Scientific Research and Market Overview. Frontiers in Systems Neuroscience, 2015, 9, 162.	1.2	135
15	Content-based query of image databases: inspirations from text retrieval. Pattern Recognition Letters, 2000, 21, 1193-1198.	2.6	130
16	Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. IEEE Transactions on Medical Imaging, 2016, 35, 2459-2475.	5.4	127
17	The Truth about Corel - Evaluation in Image Retrieval. Lecture Notes in Computer Science, 2002, , 38-49.	1.0	100
18	Evaluating performance of biomedical image retrieval systemsâ€"An overview of the medical image retrieval task at ImageCLEF 2004â€"2013. Computerized Medical Imaging and Graphics, 2015, 39, 55-61.	3.5	94

#	Article	IF	Citations
19	The CLEF 2005 Crossâ€“Language Image Retrieval Track. Lecture Notes in Computer Science, 2006, , 535-557.	1.0	77
20	Strategies for health data exchange for secondary, cross-institutional clinical research. Computer Methods and Programs in Biomedicine, 2010, 99, 230-251.	2.6	75
21	Near-Affine-Invariant Texture Learning for Lung Tissue Analysis Using Isotropic Wavelet Frames. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 665-675.	3.6	74
22	Making Radiomics More Reproducible across Scanner and Imaging Protocol Variations: A Review of Harmonization Methods. Journal of Personalized Medicine, 2021, 11, 842.	1.1	72
23	Fusing visual and clinical information for lung tissue classification in high-resolution computed tomography. Artificial Intelligence in Medicine, 2010, 50, 13-21.	3.8	71
24	Head-mounted eye gaze tracking devices: An overview of modern devices and recent advances. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831877399.	0.6	71
25	Benefits of Content-based Visual Data Access in Radiology. Radiographics, 2005, 25, 849-858.	1.4	66
26	The CLEF 2004 Cross-Language Image Retrieval Track. Lecture Notes in Computer Science, 2005, , 597-613.	1.0	65
27	Repeatability of grasp recognition for robotic hand prosthesis control based on sEMG data. , 2017, 2017, 1154-1159.		65
28	Overview of the CLEF 2009 Medical Image Retrieval Track. Lecture Notes in Computer Science, 2010, , 72-84.	1.0	65
29	The CLEF 2005 Automatic Medical Image Annotation Task. International Journal of Computer Vision, 2007, 74, 51-58.	10.9	61
30	BIAS: Transparent reporting of biomedical image analysis challenges. Medical Image Analysis, 2020, 66, 101796.	7.0	59
31	Classification of SD-OCT images using a Deep learning approach. , 2017, , .		58
32	ChaLearn Joint Contest on Multimedia Challenges Beyond Visual Analysis: An overview. , 2016, , .		57
33	LifeCLEF 2015: Multimedia Life Species Identification Challenges. Lecture Notes in Computer Science, 2015, , 462-483.	1.0	57
34	Overview of the ImageCLEFmed 2006 Medical Retrieval and Medical Annotation Tasks. Lecture Notes in Computer Science, 2007, , 595-608.	1.0	55
35	Advancing Biomedical Image Retrieval: Development and Analysis of a Test Collection. Journal of the American Medical Informatics Association: JAMIA, 2006, 13, 488-496.	2.2	54
36	Kinematic synergies of hand grasps: a comprehensive study on a large publicly available dataset. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 63.	2.4	52

#	Article	IF	Citations
37	Classification of diabetes-related retinal diseases using a deep learning approach in optical coherence tomography. Computer Methods and Programs in Biomedicine, 2019, 178, 181-189.	2.6	51
38	Effect of clinical parameters on the control of myoelectric robotic prosthetic hands. Journal of Rehabilitation Research and Development, 2016, 53, 345-358.	1.6	49
39	Assessment of Internet-based tele-medicine in Africa (the RAFT project). Computerized Medical Imaging and Graphics, 2006, 30, 407-416.	3.5	48
40	Ground truth generation in medical imaging. , 2012, , .		48
41	Rotationâ€“Covariant Texture Learning Using Steerable Riesz Wavelets. IEEE Transactions on Image Processing, 2014, 23, 898-908.	6.0	48
42	Comparative Performance Analysis of State-of-the-Art Classification Algorithms Applied to Lung Tissue Categorization. Journal of Digital Imaging, 2010, 23, 18-30.	1.6	47
43	Staining Invariant Features for Improving Generalization of Deep Convolutional Neural Networks in Computational Pathology. Frontiers in Bioengineering and Biotechnology, 2019, 7, 198.	2.0	47
44	A quantitative taxonomy of human hand grasps. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 28.	2.4	47
45	Automatic medical image annotation in ImageCLEF 2007: Overview, results, and discussion. Pattern Recognition Letters, 2008, 29, 1988-1995.	2.6	45
46	The ImageCLEFmed Medical Image Retrieval Task Test Collection. Journal of Digital Imaging, 2009, 22, 648-655.	1.6	45
47	VISCERAL: Towards Large Data in Medical Imaging â€" Challenges and Directions. Lecture Notes in Computer Science, 2013, , 92-98.	1.0	45
48	Learning from User Behavior in Image Retrieval: Application of Market Basket Analysis. International Journal of Computer Vision, 2004, 56, 65-77.	10.9	44
49	Lung Tissue Classification Using Wavelet Frames. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6260-3.	0.5	44
50	ImageCLEF 2014: Overview and Analysis of the Results. Lecture Notes in Computer Science, 2014, , 192-211.	1.0	44
51	Retrieval From and Understanding of Large-Scale Multi-modal Medical Datasets: A Review. IEEE Transactions on Multimedia, 2017, 19, 2093-2104.	5.2	43
52	A reference data set for the evaluation of medical image retrieval systems. Computerized Medical Imaging and Graphics, 2004, 28, 295-305.	3.5	42
53	Overview of the ImageCLEFmed 2007 Medical Retrieval and Medical Annotation Tasks. Lecture Notes in Computer Science, 2008, , 472-491.	1.0	42
54	Comparing features sets for content-based image retrieval in a medical-case database. , 2004, 5371, 99.		41

#	Article	IF	Citations
55	Medical Image Retrieval: A Multimodal Approach. Cancer Informatics, 2014, 13s3, CIN.S14053.	0.9	39
56	Analysis of Histopathology Images. , 2017, , 281-314.		39
57	Assessing the Scholarly Impact of ImageCLEF. Lecture Notes in Computer Science, 2011, , 95-106.	1.0	38
58	LifeCLEF 2017 Lab Overview: Multimedia Species Identification Challenges. Lecture Notes in Computer Science, 2017, , 255-274.	1.0	38
59	Bringing the Algorithms to the Data: Cloudâ€“Based Benchmarking for Medical Image Analysis. Lecture Notes in Computer Science, 2012, , 24-29.	1.0	37
60	LifeCLEF 2014: Multimedia Life Species Identification Challenges. Lecture Notes in Computer Science, 2014, , 229-249.	1.0	37
61	The Ninapro database: A resource for sEMG naturally controlled robotic hand prosthetics. , 2015, 2015, 7151-4.		37
62	Regression Concept Vectors for Bidirectional Explanations in Histopathology. Lecture Notes in Computer Science, 2018, , 124-132.	1.0	37
63	Overview of the ImageCLEFmed 2008 Medical Image Retrieval Task. Lecture Notes in Computer Science, 2009, , 512-522.	1.0	36
64	Div400. , 2014, , .		35
65	How users search and what they search for in the medical domain. Information Retrieval, 2016, 19, 189-224.	1.6	34
66	Casimage Project. Journal of Thoracic Imaging, 2004, 19, 103-108.	0.8	33
67	Fusion Techniques for Combining Textual and Visual Information Retrieval. The Kluwer International Series on Information Retrieval, 2010, , 95-114.	1.0	32
68	LifeCLEF 2016: Multimedia Life Species Identification Challenges. Lecture Notes in Computer Science, 2016, , 286-310.	1.0	32
69	Classification of hand movements in amputated subjects by sEMG and accelerometers. , 2014, 2014, 3545-9.		31
70	A 3-D Riesz-Covariance Texture Model for Prediction of Nodule Recurrence in Lung CT. IEEE Transactions on Medical Imaging, 2016, 35, 2620-2630.	5.4	31
71	Revealing Tumor Habitats from Texture Heterogeneity Analysis for Classification of Lung Cancer Malignancy and Aggressiveness. Scientific Reports, 2019, 9, 4500.	1.6	31
72	Using MapReduce for Large-Scale Medical Image Analysis. , 2012, , .		30

#	Article	IF	Citations
73	Semi-supervised training of deep convolutional neural networks with heterogeneous data and few local annotations: An experiment on prostate histopathology image classification. Medical Image Analysis, 2021, 73, 102165.	7.0	30
74	The CLEF Cross Language Image Retrieval Track (ImageCLEF) 2004. Lecture Notes in Computer Science, 2004, , 243-251.	1.0	29
75	Overview of the ImageCLEF 2006 Photographic Retrieval and Object Annotation Tasks. Lecture Notes in Computer Science, 2007, , 579-594.	1.0	29
76	Case-based lung image categorization and retrieval for interstitial lung diseases: clinical workflows. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 97-110.	1.7	28
77	Variability of Muscle Synergies in Hand Grasps: Analysis of Intra- and Inter-Session Data. Sensors, 2020, 20, 4297.	2.1	28
78	Overview of the ImageCLEFphoto 2007 Photographic Retrieval Task. Lecture Notes in Computer Science, 2007, , 433-444.	1.0	27
79	Multiscale Lung Texture Signature Learning Using the Riesz Transform. Lecture Notes in Computer Science, 2012, 15, 517-524.	1.0	26
80	Medical information retrieval: introduction to the special issue. Information Retrieval, 2016, 19, 1-5.	1.6	26
81	Using Multiscale Visual Words for Lung Texture Classification and Retrieval. Lecture Notes in Computer Science, 2012, , 69-79.	1.0	25
82	Result diversification in social image retrieval: a benchmarking framework. Multimedia Tools and Applications, 2016, 75, 1301-1331.	2.6	25
83	A large calibrated database of hand movements and grasps kinematics. Scientific Data, 2020, 7, 12.	2.4	24
84	Information Fusion for Combining Visual and Textual Image Retrieval. , 2010, , .		23
85	3D Solid Texture Classification Using Locally-Oriented Wavelet Transforms. IEEE Transactions on Image Processing, 2017, 26, 1899-1910.	6.0	23
86	The Scholarly Impact of CLEF (2000â€“2009). Lecture Notes in Computer Science, 2013, , 1-12.	1.0	23
87	Mobile Medical Visual Information Retrieval. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 53-61.	3.6	22
88	Muscle Synergy Analysis of a Hand-Grasp Dataset: A Limited Subset of Motor Modules May Underlie a Large Variety of Grasps. Frontiers in Neurorobotics, 2018, 12, 57.	1.6	22
89	Overview of LifeCLEF 2018: AÂLarge-Scale Evaluation of Species Identification and Recommendation Algorithms in the Era of AI. Lecture Notes in Computer Science, 2018, , 247-266.	1.0	22
90	Medical Visual Information Retrieval: State of the Art and Challenges Ahead. , 2007, , .		21

#	Article	IF	Citations
91	Div150Cred. , 2015, , .		21
92	Deep Multimodal Classification of Image Types in Biomedical Journal Figures. Lecture Notes in Computer Science, 2018, , 3-14.	1.0	21
93	Overview of ImageCLEF 2018: Challenges, Datasets and Evaluation. Lecture Notes in Computer Science, 2018, , 309-334.	1.0	21
94	Overview of the VISCERAL Retrieval Benchmark 2015. Lecture Notes in Computer Science, 2015, , 115-123.	1.0	21
95	ImageCLEF 2019: Multimedia Retrieval in Medicine, Lifelogging, Security and Nature. Lecture Notes in Computer Science, 2019, , 358-386.	1.0	20
96	Creating a classification of image types in the medical literature for visual categorization. Proceedings of SPIE, 2012, , .	0.8	19
97	Report on the Evaluation-as-a-Service (EaaS) Expert Workshop. ACM SIGIR Forum, 2015, 49, 57-65.	0.4	19
98	DeepHistReg: Unsupervised Deep Learning Registration Framework for Differently Stained Histology Samples. Computer Methods and Programs in Biomedicine, 2021, 198, 105799.	2.6	19
99	Overview of LifeCLEF 2019: Identification of Amazonian Plants, South & North American Birds, and Niche Prediction. Lecture Notes in Computer Science, 2019, , 387-401.	1.0	19
100	Deep Learning-Based Retrieval System for Gigapixel Histopathology Cases and the Open Access Literature. Journal of Pathology Informatics, 2019, 10, 19.	0.8	19
101	Evaluation axes for medical image retrieval systems. , 2005, , .		18
102	Lung Texture Classification Using Locallyâ€“Oriented Riesz Components. Lecture Notes in Computer Science, 2011, , 231-238.	1.0	18
103	Separating compound figures in journal articles to allow for subfigure classification. Proceedings of SPIE, 2013, , .	0.8	18
104	ImageCLEF 2013: The Vision, the Data and the Open Challenges. Lecture Notes in Computer Science, 2013, , 250-268.	1.0	18
105	Facilitating medical information search using Google Glass connected to a content-based medical image retrieval system. , 2014, 2014, 4507-10.		17
106	General Overview of ImageCLEF at the CLEF 2015 Labs. Lecture Notes in Computer Science, 2015, , 444-461.	1.0	17
107	PaWFE: Fast Signal Feature Extraction Using Parallel Time Windows. Frontiers in Neurorobotics, 2019, 13, 74.	1.6	17
108	Recognition of hand movements in a trans-radial amputated subject by sEMG. , 2013, 2013, 6650486.		16

#	Article	IF	Citations
109	Gesture Interaction for Content--based Medical Image Retrieval. , 2014, , .		16
110	Optimized steerable wavelets for texture analysis of lung tissue in 3-D CT: Classification of usual interstitial pneumonia. , 2015, , .		16
111	User-oriented evaluation of a medical image retrieval system for radiologists. International Journal of Medical Informatics, 2015, 84, 774-783.	1.6	16
112	Using smart glasses in medical emergency situations, a qualitative pilot study. , 2016, , .		16
113	The Use of MedGIFT and EasyIR for ImageCLEF 2005. Lecture Notes in Computer Science, 2006, , 724-732.	1.0	16
114	Overview of LifeCLEF 2020: A System-Oriented Evaluation of Automated Species Identification and Species Distribution Prediction. Lecture Notes in Computer Science, 2020, , 342-363.	1.0	16
115	Overview of ImageCLEF 2017: Information Extraction from Images. Lecture Notes in Computer Science, 2017, , 315-337.	1.0	15
116	Gaze, visual, myoelectric, and inertial data of grasps for intelligent prosthetics. Scientific Data, 2020, 7, 43.	2.4	15
117	On the Scale Invariance in State of the Art CNNs Trained on ImageNet. Machine Learning and Knowledge Extraction, 2021, 3, 374-391.	3.2	15
118	The Discriminative Power and Stability of Radiomics Features With Computed Tomography Variations. Investigative Radiology, 2021, 56, 820-825.	3.5	15
119	3D Caseâ€“Based Retrieval for Interstitial Lung Diseases. Lecture Notes in Computer Science, 2010, , 39-48.	1.0	15
120	Automated Componentâ€“Level Evaluation: Present and Future. Lecture Notes in Computer Science, 2010, , 124-135.	1.0	15
121	Neural network training for cross-protocol radiomic feature standardization in computed tomography. Journal of Medical Imaging, 2019, 6, 1.	0.8	15
122	Prototypes for Content-Based Image Retrieval in Clinical Practice. Open Medical Informatics Journal, 2011, 5, 58-72.	1.0	15
123	A Framework for Benchmarking in CBIR. Multimedia Tools and Applications, 2003, 21, 55-73.	2.6	14
124	Fusing learned representations from Riesz Filters and Deep CNN for lung tissue classification. Medical Image Analysis, 2019, 56, 172-183.	7.0	14
125	The importance of feature aggregation in radiomics: a head and neck cancer study. Scientific Reports, 2020, 10, 19679.	1.6	14
126	Evaluation-as-a-Service for the Computational Sciences. Journal of Data and Information Quality, 2018, 10, 1-32.	1.5	14

#	Article	IF	Citations
127	Lung Tissue Classification in HRCT Data Integrating the Clinical Context. , 2008, , .		13
128	A classification framework for lung tissue categorization. , 2008, , .		13
129	Medical image retrieval using bag of meaningful visual words. , 2013, , .		13
130	Retrieval of high-dimensional visual data: current state, trends and challenges ahead. Multimedia Tools and Applications, 2014, 69, 539-567.	2.6	13
131	Comparing fusion techniques for the ImageCLEF 2013 medical case retrieval task. Computerized Medical Imaging and Graphics, 2015, 39, 46-54.	3.5	13
132	Megane Pro: Myo-electricity, visual and gaze tracking data acquisitions to improve hand prosthetics. , 2017, 2017, 1148-1153.		13
133	Combining weakly and strongly supervised learning improves strong supervision in Gleason pattern classification. BMC Medical Imaging, 2021, 21, 77.	1.4	13
134	Content-Based Medical Image Retrieval. Biological and Medical Physics Series, 2010, , 471-494.	0.3	12
135	Div150Multi. , 2016, , .		12
136	Combining Unsupervised Feature Learning and Riesz Wavelets for Histopathology Image Representation: Application to Identifying Anaplastic Medulloblastoma. Lecture Notes in Computer Science, 2015, , 581-588.	1.0	12
137	Bagâ€“ofâ€“Colors for Biomedical Document Image Classification. Lecture Notes in Computer Science, 2013, , 110-121.	1.0	12
138	3D lung image retrieval using localized features. Proceedings of SPIE, 2011, , .	0.8	11
139	Overview of LifeCLEF 2021: AnÂEvaluation of Machine-Learning Based Species Identification and Species Distribution Prediction. Lecture Notes in Computer Science, 2021, , 371-393.	1.0	11
140	ImageCLEF 2004: Combining Image and Multi-lingual Search for Medical Image Retrieval. Lecture Notes in Computer Science, 2005, , 718-727.	1.0	10
141	Case-based fracture image retrieval. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 401-411.	1.7	10
142	Optimized Distributed Hyperparameter Search and Simulation for Lung Texture Classification in CT Using Hadoop. Journal of Imaging, 2016, 2, 19.	1.7	10
143	Evaluating multimodal relevance feedback techniques for medical image retrieval. Information Retrieval, 2016, 19, 100-112.	1.6	10
144	Crowdsourcing Biodiversity Monitoring. , 2016, , .		10

#	Article	IF	Citations
145	Improving Robotic Hand Prosthesis Control With Eye Tracking and Computer Vision: A Multimodal Approach Based on the Visuomotor Behavior of Grasping. Frontiers in Artificial Intelligence, 2021, 4, 744476.	2.0	10
146	Overview of the First Workshop on Medical Contentâ€“Based Retrieval for Clinical Decision Support at MICCAI 2009. Lecture Notes in Computer Science, 2010, , 1-17.	1.0	9
147	Overview of the ImageCLEF 2021: Multimedia Retrieval in Medical, Nature, Internet and Social Media Applications. Lecture Notes in Computer Science, 2021, , 345-370.	1.0	9
148	Hierarchic Multiâ€“atlas Based Segmentation for Anatomical Structures: Evaluation in the VISCERAL Anatomy Benchmarks. Lecture Notes in Computer Science, 2014, , 189-200.	1.0	9
149	H&E-adversarial network: a convolutional neural network to learn stain-invariant features through Hematoxylin & Eosin regression. , 2021, , .		9
150	PROMISE retreat report prospects and opportunities for information access evaluation. ACM SIGIR Forum, 2012, 46, 60-84.	0.4	8
151	Rotation-covariant texture analysis of 4D dual-energy CT as an indicator of local pulmonary perfusion. , 2013, , .		8
152	Measuring and Analyzing the Scholarly Impact of Experimental Evaluation Initiatives. Procedia Computer Science, 2014, 38, 133-137.	1.2	8
153	3D Riesz-wavelet based Covariance descriptors for texture classification of lung nodule tissue in CT. , 2015, 2015, 7909-12.		8
154	General Overview of ImageCLEF at the CLEF 2016 Labs. Lecture Notes in Computer Science, 2016, , 267-285.	1.0	8
155	Prospects and Challenges of Radiomics by Using Nononcologic Routine Chest CT. Radiology: Cardiothoracic Imaging, 2020, 2, e190190.	0.9	8
156	The ImageCLEF Medical Retrieval Task at ICPR 2010 â€" Information Fusion to Combine Visual and Textual Information. Lecture Notes in Computer Science, 2010, , 99-108.	1.0	8
157	A systematic comparison of deep learning strategies for weakly supervised Gleason grading. , 2020, , .		8
158	Design and Evaluation of a Content-Based Image Retrieval System. , 2001, , 125-151.		8
159	Integrating content-based visual access methods into a medical case database. Studies in Health Technology and Informatics, 2003, 95, 480-5.	0.2	8
160	Image-based diagnostic aid for interstitial lung disease with secondary data integration. , 2007, , .		7
161	Harnessing the Scientific Data Produced by the Experimental Evaluation Search Engines and Information Access Systems. Procedia Computer Science, 2011, 4, 740-749.	1.2	7
162	Benefits of texture analysis of dual energy CT for Computer-Aided pulmonary embolism detection. , 2013, 2013, 3973-6.		7

#	Article	IF	Citations
163	Benchmarking result diversification in social image retrieval. , 2014, , .		7
164	Fusion Techniques in Biomedical Information Retrieval. , 2014, , 209-228.		7
165	Comparing image search behaviour in the ARRS GoldMiner search engine and a clinical PACS/RIS. Journal of Biomedical Informatics, 2015, 56, 57-64.	2.5	7
166	Benchmarking Image Retrieval Diversification Techniques for Social Media. IEEE Transactions on Multimedia, 2021, 23, 677-691.	5.2	7
167	Creating a Large-Scale Silver Corpus from Multiple Algorithmic Segmentations. Lecture Notes in Computer Science, 2016, , 103-115.	1.0	7
168	Putting the Content Into Context. International Journal of Healthcare Information Systems and Informatics, 2009, 4, 88-98.	1.0	7
169	A web-based evaluation system for CBIR. , 2001, , .		6
170	Medical imaging and telemedicine â€“ from medical data production, to processing, storing, and sharing: A short outlook. Computerized Medical Imaging and Graphics, 2006, 30, 329-331.	3.5	6
171	From medical imaging to medical informatics. Computer Methods and Programs in Biomedicine, 2008, 92, 225-226.	2.6	6
172	Comparing the quality of accessing medical literature using content-based visual and textual information retrieval. Proceedings of SPIE, 2009, , .	0.8	6
173	Cloudâ€“Based Evaluation Framework for Big Data. Lecture Notes in Computer Science, 2013, , 104-114.	1.0	6
174	Rotation-covariant tissue analysis for interstitial lung diseases using learned steerable filters: Performance evaluation and relevance for diagnostic aid. Computerized Medical Imaging and Graphics, 2018, 64, 1-11.	3.5	6
175	ImageCLEF 2019: Multimedia Retrieval in Lifelogging, Medical, Nature, and Security Applications. Lecture Notes in Computer Science, 2019, , 301-308.	1.0	6
176	A lung graph model for the radiological assessment of chronic thromboembolic pulmonary hypertension in CT. Computers in Biology and Medicine, 2020, 125, 103962.	3.9	6
177	Gaze, behavioral, and clinical data for phantom limbs after hand amputation from 15 amputees and 29 controls. Scientific Data, 2020, 7, 60.	2.4	6
178	Learning-Based Affine Registration ofÂHistological Images. Lecture Notes in Computer Science, 2020, , 12-22.	1.0	6
179	Overview of the ImageCLEF 2020: Multimedia Retrieval in Medical, Lifelogging, Nature, and Internet Applications. Lecture Notes in Computer Science, 2020, , 311-341.	1.0	6
180	Semiâ€“supervised Learning for Image ModalityÂClassification. Lecture Notes in Computer Science, 2015, , 85-98.	1.0	6

#	Article	IF	Citations
181	University and Hospitals of Geneva Participating at ImageCLEF 2007. Lecture Notes in Computer Science, 2008, , 649-656.	1.0	6
182	The MedGIFT Group at ImageCLEFÂ2009. Lecture Notes in Computer Science, 2010, , 211-218.	1.0	6
183	Information Fusion for Combining Visual and Textual Image Retrieval in ImageCLEF@ICPR. Lecture Notes in Computer Science, 2010, , 129-137.	1.0	6
184	Medical (Visual) Information Retrieval. Lecture Notes in Computer Science, 2013, , 155-166.	1.0	6
185	Overview of the Third Workshop on Medical Contentâ€“Based Retrieval for Clinical Decision Support (MCBRâ€“CDS 2012). Lecture Notes in Computer Science, 2013, , 1-9.	1.0	6
186	Questioning Domain Adaptation in Myoelectric Hand Prostheses Control: An Inter- and Intra-Subject Study. Sensors, 2021, 21, 7500.	2.1	6
187	Assessing radiomics feature stability with simulated CT acquisitions. Scientific Reports, 2022, 12, 4732.	1.6	6
188	Hierarchical classification using a frequency-based weighting and simple visual features. Pattern Recognition Letters, 2008, 29, 2011-2017.	2.6	5
189	Using the Grid for Enhancing the Performance of a Medical Image Search Engine. , 2008, , .		5
190	Mobile medical image retrieval. , 2011, , .		5
191	Epileptogenic Lesion Quantification in MRI Using Contralateral 3D Texture Comparisons. Lecture Notes in Computer Science, 2013, 16, 353-360.	1.0	5
192	Natural control capabilities of robotic hands by hand amputated subjects. , 2014, 2014, 4362-5.		5
193	Image Classification with a Frequencyâ€“Based Information Retrieval Scheme for ImageCLEFmed 2006. Lecture Notes in Computer Science, 2007, , 638-643.	1.0	5
194	Translation by Text Categorisation: Medical Image Retrieval in ImageCLEFmed 2006. Lecture Notes in Computer Science, 2007, , 706-710.	1.0	5
195	Retrieval of 4D Dual Energy CT for Pulmonary Embolism Diagnosis. Lecture Notes in Computer Science, 2013, , 45-55.	1.0	5
196	RadLex Terms and Local Texture Features for Multimodal Medical Case Retrieval. Lecture Notes in Computer Science, 2015, , 144-152.	1.0	5
197	Experiences from the ImageCLEF Medical Retrieval and Annotation Tasks. The Kluwer International Series on Information Retrieval, 2019, , 231-250.	1.0	5
198	Logo and Text Removal for Medical Image Retrieval. , 2005, , 35-39.		4

#	Article	IF	Citations
199	Rotation-covariant visual concept detection using steerable Riesz wavelets and bags of visual words. Proceedings of SPIE, 2013, , .	0.8	4
200	Region-based volumetric medical image retrieval. , 2013, , .		4
201	A Visual Information Retrieval System for Radiology Reports and the Medical Literature. Lecture Notes in Computer Science, 2014, , 390-393.	1.0	4
202	Pulmonary embolism detection using localized vessel-based features in dual energy CT. , 2015, , .		4
203	From Local to Global: A Holistic Lung Graph Model. Lecture Notes in Computer Science, 2018, , 786-793.	1.0	4
204	Text- and Content-Based Medical Image Retrieval in the VISCERAL Retrieval Benchmark. , 2017, , 237-249.		4
205	A Lung Graphâ€“Model for Pulmonary Hypertension and Pulmonary Embolism Detection on DECT Images. Lecture Notes in Computer Science, 2017, , 58-68.	1.0	4
206	The MedGIFT Group at ImageCLEF 2008. Lecture Notes in Computer Science, 2009, , 712-718.	1.0	4
207	Analyzing web log files of the health on the net HONmedia search engine to define typical image search tasks for image retrieval evaluation. Studies in Health Technology and Informatics, 2007, 129, 1319-23.	0.2	4
208	Using medline queries to generate image retrieval tasks for benchmarking. Studies in Health Technology and Informatics, 2008, 136, 523-8.	0.2	4
209	User tests for assessing a medical image retrieval system: a pilot study. Studies in Health Technology and Informatics, 2013, 192, 224-8.	0.2	4
210	Using heterogeneous annotation and visual information for the benchmarking of image retrieval systems. , 2006, , .		3
211	Seven Years of Image Retrieval Evaluation. The Kluwer International Series on Information Retrieval, 2010, , 3-18.	1.0	3
212	Multi-scale visual words for hierarchical medical image categorisation. , 2012, , .		3
213	PROMISE technology transfer day. ACM SIGIR Forum, 2013, 47, 53-58.	0.4	3
214	Determining the relative importance of figures in journal articles to find representative images. Proceedings of SPIE, 2013, , .	0.8	3
215	Multi-structure Atlas-Based Segmentation Using Anatomical Regions of Interest. Lecture Notes in Computer Science, 2014, , 217-221.	1.0	3
216	Are Species Identification Tools Biodiversity-friendly?. , 2014, , .		3

#	Article	IF	Citations
217	Medical case-based retrieval: integrating query MeSH terms for query-adaptive multi-modal fusion. Proceedings of SPIE, 2015, , .	0.8	3
218	Effects of prosthesis use on the capability to control myoelectric robotic prosthetic hands. , 2015, 2015, 3456-9.		3
219	An Augmented Reality Environment to Provide Visual Feedback to Amputees During sEMG Data Acquisitions. Lecture Notes in Computer Science, 2019, , 3-14.	1.0	3
220	Classification of Noisy Free-Text Prostate Cancer Pathology Reports Using Natural Language Processing. Lecture Notes in Computer Science, 2021, , 154-166.	1.0	3
221	Meaningful Bags of Words for Medical Image Classification and Retrieval. , 2015, , 73-93.		3
222	Using Crowdsourcing for Multi-label Biomedical Compound Figure Annotation. Lecture Notes in Computer Science, 2016, , 228-237.	1.0	3
223	Overview of the Second Workshop on Medical Contentâ€“Based Retrieval for Clinical Decision Support. Lecture Notes in Computer Science, 2012, , 1-11.	1.0	3
224	A large margin piecewise linear classifier with fusion of deep features in the diagnosis of COVID-19. Computers in Biology and Medicine, 2021, 139, 104927.	3.9	3
225	USYD/HES-SO in the VISCERAL RetrievalÂBenchmark. Lecture Notes in Computer Science, 2015, , 139-143.	1.0	3
226	Textured Graph-Based Model of the Lungs: Application on Tuberculosis Type Classification and Multi-drug Resistance Detection. Lecture Notes in Computer Science, 2018, , 157-168.	1.0	3
227	Medical Image Retrieval: Applications and Resources. , 2020, , .		3
228	Interpretable CNN Pruning for Preserving Scale-Covariant Features in Medical Imaging. Lecture Notes in Computer Science, 2020, , 23-32.	1.0	3
229	Design of a decentralized reusable research database architecture to support data acquisition in large research projects. Studies in Health Technology and Informatics, 2007, 129, 325-9.	0.2	3
230	Log analysis to understand medical professionals' image searching behaviour. Studies in Health Technology and Informatics, 2012, 180, 1020-4.	0.2	3
231	How to Visually Retrieve Images from the St. Andrews Collection Using GIFT. Lecture Notes in Computer Science, 2005, , 633-642.	1.0	2
232	Automated Object Extraction for Medical Image Retrieval Using the Insight Toolkit (ITK). Lecture Notes in Computer Science, 2006, , 476-488.	1.0	2
233	Content-based image retrieval from a database of fracture images. , 2007, , .		2
234	The ImageCLEF Medical Retrieval Task at ICPR 2010 – Information Fusion. , 2010, , .		2

#	Article	IF	Citations
235	Systematic Evaluations and Ground Truth. Biological and Medical Physics Series, 2010, , 497-520.	0.3	2
236	Enhanced visualization of pulmonary perfusion in 4D Dual Energy CT images. , 2014, 2014, 6710-3.		2
237	Multi atlas-based segmentation with data driven refinement. , 2014, , .		2
238	A decade of community-wide efforts in advancing medical image understanding and retrieval. Computerized Medical Imaging and Graphics, 2015, 39, 1-2.	3.5	2
239	Analyzing Medical Image Search Behavior: Semantics and Prediction of Query Results. Journal of Digital Imaging, 2015, 28, 537-546.	1.6	2
240	Shangriâ€“La: A medical caseâ€“based retrieval tool. Journal of the Association for Information Science and Technology, 2017, 68, 2587-2601.	1.5	2
241	Making sense of large data sets without annotations: analyzing age-related correlations from lung CT scans. , 2017, , .		2
242	Variation of Relevance Assessments for Medical Image Retrieval. Lecture Notes in Computer Science, 2007, , 232-246.	1.0	2
243	A PROMISE for Experimental Evaluation. Lecture Notes in Computer Science, 2010, , 140-144.	1.0	2
244	Exploiting biomedical literature to mine out a large multimodal dataset of rare cancer studies. , 2020, , .		2
245	Report on the Cloud-Based Evaluation Approaches Workshop 2015. ACM SIGIR Forum, 2016, 50, 38-41.	0.4	2
246	The Medical Image Retrieval Task. The Kluwer International Series on Information Retrieval, 2010, , 239-257.	1.0	2
247	Putting the Content Into Context. , 2011, , 105-115.		2
248	2Dâ€“Based 3D Volume Retrieval Using Singular Value Decomposition of Detected Regions. Lecture Notes in Computer Science, 2014, , 185-195.	1.0	2
249	Unsupervised Learning-Based Nonrigid Registration of High Resolution Histology Images. Lecture Notes in Computer Science, 2020, , 484-493.	1.0	2
250	MediCoordination: a practical approach to interoperability in the Swiss health system. Studies in Health Technology and Informatics, 2009, 150, 210-4.	0.2	2
251	Prerequisites for International Exchanges of Health Information for Record Research: Comparison of Australian, Austrian, Finnish, Swiss, and US Policies. Studies in Health Technology and Informatics, 2017, 245, 1312.	0.2	2
252	Evaluation of Methods for the Extraction of Spatial Muscle Synergies. Frontiers in Neuroscience, 2022, 16, .	1.4	2

#	Article	IF	Citations
253	Evaluating image browsers using structured annotation. Journal of the Association for Information Science and Technology, 2001, 52, 961-968.	2.6	1
254	Image retrieval: Image retrieval in medicine: The ImageCLEF medical image retrieval evaluation. Bulletin of the American Society for Information Science, 2007, 33, 24-27.	0.3	1
255	Texture classification of anatomical structures in CT using a context-free machine learning approach. Proceedings of SPIE, 2015, , .	0.8	1
256	Subdiv17. , 2018, , .		1
257	The 2021 ImageCLEF Benchmark: Multimedia Retrieval in Medical, Nature, Internet and Social Media Applications. Lecture Notes in Computer Science, 2021, , 616-623.	1.0	1
258	LifeCLEF 2020 Teaser: Biodiversity Identification and Prediction Challenges. Lecture Notes in Computer Science, 2020, , 542-549.	1.0	1
259	Overview of the 2013 Workshop on Medical Computer Vision (MCV 2013). Lecture Notes in Computer Science, 2014, , 3-10.	1.0	1
260	2Dâ€“Based 3D Volume Retrieval Using Singular Value Decomposition of Detected Regions. Lecture Notes in Computer Science, 2014, , 185-195.	1.0	1
261	Using Probability Maps for Multiâ€“organ Automatic Segmentation. Lecture Notes in Computer Science, 2014, , 222-228.	1.0	1
262	Workshop Multimodal Retrieval in the Medical Domain (MRMD) 2015. Lecture Notes in Computer Science, 2015, , 834-837.	1.0	1
263	Retrieval of Medical Cases for Diagnostic Decisions: VISCERAL Retrieval Benchmark. , 2017, , 127-141.		1
264	Combining Radiology Images and Clinical Metadata for Multimodal Medical Case-Based Retrieval. , 2017, , 221-236.		1
265	ImageCLEF 2020: Multimedia Retrieval in Lifelogging, Medical, Nature, and Internet Applications. Lecture Notes in Computer Science, 2020, , 533-541.	1.0	1
266	An Easy Setup for Parallel Medical Image Processing: Using Taverna and ARC. Studies in Health Technology and Informatics, 2009, 147, 41-50.	0.2	1
267	Toward translational incremental similarity-based reasoning in breast cancer grading. Proceedings of SPIE, 2009, , .	0.8	0
268	Asymmetric-margin support vector machines for lung tissue classification. , 2010, , .		0
269	Multiscale salient point-based retrieval of fracture cases. Proceedings of SPIE, 2011, , .	0.8	0
270	Special Section: Grid and Pervasive Computing 2009. Future Generation Computer Systems, 2011, 27, 587-589.	4.9	0

#	Article	IF	Citations
271	PROMISE winter school 2012 information retrieval meets information visualization. ACM SIGIR Forum, 2012, 46, 65-70.	0.4	0
272	Synchronized slice viewing of similar image series. , 2012, , .		0
273	Three dimensional multi-scale visual words for texture-based cerebellum segmentation. , 2012, , .		0
274	MedIR14. , 2014, , .		0
275	Finding seed points for organ segmentation using example annotations. , 2014, , .		0
276	Locating seed points for automatic multi-organ segmentation using non-rigid registration and organ annotations. Proceedings of SPIE, 2015, , .	0.8	0
277	Reports on CBMI 16 and ICME 16. IEEE MultiMedia, 2016, 23, 88-93.	1.5	0
278	A Demo of multimodal medical retrieval. , 2016, , .		0
279	GPU-Accelerated Texture Analysis Using Steerable Riesz Wavelets. , 2016, , .		0
280	EaaS: Evaluation-as-a-Service and Experiences from the VISCERAL Project. The Kluwer International Series on Information Retrieval, 2019, , 161-173.	1.0	0
281	Effect of movement type on the classification of electromyography data for the control of dexterous prosthetic hands. , 2020, , .		0
282	LifeCLEF 2021 Teaser: Biodiversity Identification and Prediction Challenges. Lecture Notes in Computer Science, 2021, , 601-607.	1.0	0
283	End-to-End Fine-Grained Neural Entity Recognition of Patients, Interventions, Outcomes. Lecture Notes in Computer Science, 2021, , 65-77.	1.0	0
284	The ImageCLEF Management System. Lecture Notes in Computer Science, 2010, , 332-339.	1.0	0
285	Creating Realistic Topics for Image Retrieval Evaluation. The Kluwer International Series on Information Retrieval, 2010, , 45-61.	1.0	0
286	IRMA Code II. Informatik Aktuell, 2012, , 440-445.	0.4	0
287	Overview of the 2013 Workshop on Medical Computer Vision (MCV 2013). Lecture Notes in Computer Science, 2014, , 3-10.	1.0	0
288	Overview of the 2014 Workshop on Medical Computer Visionâ€"Algorithms for Big Data (MCV 2014). Lecture Notes in Computer Science, 2014, , 3-10.	1.0	0

#	Article	IF	Citations
289	Overview of the First Workshop of Muldimodal Retrieval in the Medical Domain (MRMD 2015). Lecture Notes in Computer Science, 2015, , 1-7.	1.0	0
290	Using the Cloud as a Platform for Evaluation and Data Preparation. , 2017, , 15-30.		0
291	VISCERAL: Evaluation-as-a-Service for Medical Imaging. , 2017, , 3-13.		0
292	A Graph Model of the Lungs with Morphology-Based Structure for Tuberculosis Type Classification. Lecture Notes in Computer Science, 2019, , 372-383.	1.0	0
293	Studying Public Medical Images from the Open Access Literature and Social Networks for Model Training and Knowledge Extraction. Lecture Notes in Computer Science, 2020, , 553-564.	1.0	0
294	Report on the 12th conference and labs of the evaluation forum (CLEF 2021). ACM SIGIR Forum, 2021, 55, 1-12.	0.4	0