Dietmar Frey

List of Publications by Year
in descending order

23 papers	1,422 citations	840585 11 h-index	752573 20 g-index
31 all docs	31 docs citations	31 times ranked	1314 citing authors

#	Article	IF	Citations
1	Explainability for artificial intelligence in healthcare: a multidisciplinary perspective. BMC Medical Informatics and Decision Making, 2020, 20, 310.	1.5	503
2	Preoperative Functional Mapping for Rolandic Brain Tumor Surgery: Comparison of Navigated Transcranial Magnetic Stimulation to Direct Cortical Stimulation. Neurosurgery, 2011, 69, 581-589.	0.6	240
3	A U-Net Deep Learning Framework for High Performance Vessel Segmentation in Patients With Cerebrovascular Disease. Frontiers in Neuroscience, 2019, 13, 97.	1.4	160
4	Navigated transcranial magnetic stimulation improves the treatment outcome in patients with brain tumors in motor eloquent locations. Neuro-Oncology, 2014, 16, 1365-1372.	0.6	139
5	Opening the black box of artificial intelligence for clinical decision support: A study predicting stroke outcome. PLoS ONE, 2020, 15, e0231166.	1.1	96
6	Presurgical navigated TMS motor cortex mapping improves outcome in glioblastoma surgery: a controlled observational study. Journal of Neuro-Oncology, 2016, 126, 535-543.	1.4	74
7	On the usage of average Hausdorff distance for segmentation performance assessment: hidden error when used for ranking. European Radiology Experimental, 2021, 5, 4.	1.7	58
8	BRAVE-NET: Fully Automated Arterial Brain Vessel Segmentation in Patients With Cerebrovascular Disease. Frontiers in Artificial Intelligence, 2020, 3, 552258.	2.0	40
9	Synthesizing anonymized and labeled TOF-MRA patches for brain vessel segmentation using generative adversarial networks. Computers in Biology and Medicine, 2021, 131, 104254.	3.9	32
10	Outcome prediction in aneurysmal subarachnoid hemorrhage: a comparison of machine learning methods and established clinico-radiological scores. Neurosurgical Review, 2021, 44, 2837-2846.	1.2	20
11	Generating 3D TOF-MRA volumes and segmentation labels using generative adversarial networks. Medical Image Analysis, 2022, 78, 102396.	7.0	12
12	Comparing Poor and Favorable Outcome Prediction With Machine Learning After Mechanical Thrombectomy in Acute Ischemic Stroke. Frontiers in Neurology, 2022, 13, .	1.1	9
13	An evaluation of performance measures for arterial brain vessel segmentation. BMC Medical Imaging, 2021, 21, 113.	1.4	8
14	A precision medicine framework for personalized simulation of hemodynamics in cerebrovascular disease. BioMedical Engineering OnLine, 2021, 20, 44.	1.3	7
15	Multimodal Fusion Strategies for Outcome Prediction in Stroke. , 2020, , .		4
16	Similar admission NIHSS may represent larger tissue-at-risk in patients with right-sided versus left-sided large vessel occlusion. Journal of NeuroInterventional Surgery, 2022, 14, 985-991.	2.0	4
17	Toward Sharing Brain Images: Differentially Private TOF-MRA Images With Segmentation Labels Using Generative Adversarial Networks. Frontiers in Artificial Intelligence, 2022, 5, 813842.	2.0	4
18	Predictive models for independence after stroke rehabilitation: Maugeri external validation and development of a new model. NeuroRehabilitation, 2021, 49, 415-424.	0.5	3

#	Article	IF	Citations
19	The impact of coronavirus disease 2019 on emotional and behavioral stress of informal family caregivers of individuals with stroke or traumatic brain injury at chronic phase living in a Mediterranean setting. Brain and Behavior, 2022, 12, e2440.	1.0	3
20	Toward Personalized Web-Based Cognitive Rehabilitation for Patients With Ischemic Stroke: Elo Rating Approach. JMIR Medical Informatics, 2021, 9, e28090.	1.3	2
21	Neuropsychological Assessments of Patients With Acquired Brain Injury: A Cluster Analysis Approach to Address Heterogeneity in Web-Based Cognitive Rehabilitation. Frontiers in Neurology, 2021, 12, 701946.	1.1	2
22	Long-term trajectories of motor functional independence after ischemic stroke in young adults: Identification and characterization using inpatient baseline assessments. NeuroRehabilitation, 2022, 50, 453-465.	0.5	1
23	The impact of COVID-19 on home, social, and productivity integration of people with chronic traumatic brain injury or stroke living in the community. Medicine (United States), 2022, 101, e28695.	0.4	0