

Georgios A Kaissis

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.

44 papers	512 citations	10 h-index	21 g-index
49 ext. papers	913 ext. citations	6.7 avg, IF	4.48 L-index

#	Paper	IF	Citations
44	Secure, privacy-preserving and federated machine learning in medical imaging. <i>Nature Machine Intelligence</i> , 2020 , 2, 305-311	22.5	162
43	End-to-end privacy preserving deep learning on multi-institutional medical imaging. <i>Nature Machine Intelligence</i> , 2021 , 3, 473-484	22.5	43
42	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	39
41	A machine learning model for the prediction of survival and tumor subtype in pancreatic ductal adenocarcinoma from preoperative diffusion-weighted imaging. <i>European Radiology Experimental</i> , 2019 , 3, 41	4.5	33
40	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , 2021 , 4, 60	15.7	29
39	A machine learning algorithm predicts molecular subtypes in pancreatic ductal adenocarcinoma with differential response to gemcitabine-based versus FOLFIRINOX chemotherapy. <i>PLoS ONE</i> , 2019 , 14, e0218642	3.7	26
38	Image-Based Molecular Phenotyping of Pancreatic Ductal Adenocarcinoma. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	20
37	Magnetic resonance cholangiopancreatography at 3 Tesla: Image quality comparison between 3D compressed sensing and 2D single-shot acquisitions. <i>European Journal of Radiology</i> , 2019 , 115, 53-58	4.7	17
36	Joint Imaging Platform for Federated Clinical Data Analytics. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 1027-1038	5.2	13
35	Improved detection rates and treatment planning of head and neck cancer using dual-layer spectral CT. <i>European Radiology</i> , 2018 , 28, 4925-4931	8	12
34	Accuracy of Calcium Scoring calculated from contrast-enhanced Coronary Computed Tomography Angiography using a dual-layer spectral CT: A comparison of Calcium Scoring from real and virtual non-contrast data. <i>PLoS ONE</i> , 2018 , 13, e0208588	3.7	10
33	Molecular imaging of myocardial infarction with Gadofluorine P - A combined magnetic resonance and mass spectrometry imaging approach. <i>Heliyon</i> , 2018 , 4, e00606	3.6	9
32	SurvivalNet: Predicting patient survival from diffusion weighted magnetic resonance images using cascaded fully convolutional and 3D Convolutional Neural Networks 2017 ,		9
31	Medical imaging deep learning with differential privacy. <i>Scientific Reports</i> , 2021 , 11, 13524	4.9	9
30	Pancreatic cancer detection and characterization-state of the art cross-sectional imaging and imaging data analysis. <i>Translational Gastroenterology and Hepatology</i> , 2019 , 4, 35	5.2	8
29	Borderline-resectable pancreatic adenocarcinoma: Contour irregularity of the venous confluence in pre-operative computed tomography predicts histopathological infiltration. <i>PLoS ONE</i> , 2019 , 14, e0208717	3.7	7
28	Deep Convolutional Neural Network-Assisted Feature Extraction for Diagnostic Discrimination and Feature Visualization in Pancreatic Ductal Adenocarcinoma (PDAC) versus Autoimmune Pancreatitis (AIP). <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6

27	Multiparametric Modelling of Survival in Pancreatic Ductal Adenocarcinoma Using Clinical, Histomorphological, Genetic and Image-Derived Parameters. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	5
26	Combined DCE-MRI- and FDG-PET enable histopathological grading prediction in a rat model of hepatocellular carcinoma. <i>European Journal of Radiology</i> , 2020 , 124, 108848	4.7	5
25	Mass Spectrometry Imaging of atherosclerosis-affine Gadofluorine following Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2020 , 10, 79	4.9	5
24	Camera-based respiratory triggering improves the image quality of 3D magnetic resonance cholangiopancreatography. <i>European Journal of Radiology</i> , 2019 , 120, 108675	4.7	4
23	A prospectively validated machine learning model for the prediction of survival and tumor subtype in pancreatic ductal adenocarcinoma		4
22	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , 2021 , 3, 749-758	22.5	4
21	Acceleration of chemical shift encoding-based water fat MRI for liver proton density fat fraction and T2* mapping using compressed sensing. <i>PLoS ONE</i> , 2019 , 14, e0224988	3.7	3
20	K�stliche Intelligenz und maschinelles Lernen in der onkologischen Bildgebung. <i>Onkologe</i> , 2020 , 26, 60-65	0.1	3
19	Prediction of Tumor Cellularity in Resectable PDAC from Preoperative Computed Tomography Imaging. <i>Cancers</i> , 2021 , 13,	6.6	3
18	Transarterial Administration of Oncolytic Viruses for Locoregional Therapy of Orthotopic HCC in Rats. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	2
17	Flimma: a federated and privacy-aware tool for differential gene expression analysis.. <i>Genome Biology</i> , 2021 , 22, 338	18.3	2
16	Prognostic factors in hepatocellular carcinoma patients undergoing transarterial chemoembolization and radioembolization: a retrospective study. <i>European Journal of Gastroenterology and Hepatology</i> , 2020 , 32, 1036-1041	2.2	2
15	Hyperpolarized C pyruvate magnetic resonance spectroscopy for in vivo metabolic phenotyping of rat HCC. <i>Scientific Reports</i> , 2021 , 11, 1191	4.9	2
14	sPLINK: a hybrid federated tool as a robust alternative to meta-analysis in genome-wide association studies.. <i>Genome Biology</i> , 2022 , 23, 32	18.3	1
13	A machine learning algorithm predicts molecular subtypes in pancreatic ductal adenocarcinoma with differential response to gemcitabine-based versus FOLFIRINOX chemotherapy		1
12	Qualitative and Quantitative Comparison of Respiratory Triggered Reduced Field-of-View (FOV) Versus Full FOV Diffusion Weighted Imaging (DWI) in Pancreatic Pathologies. <i>Academic Radiology</i> , 2021 , 28 Suppl 1, S234-S243	4.3	1
11	[F]FDG PET/MRI enables early chemotherapy response prediction in pancreatic ductal adenocarcinoma. <i>EJNMMI Research</i> , 2021 , 11, 70	3.6	1
10	AI reflections in 2020. <i>Nature Machine Intelligence</i> , 2021 , 3, 2-8	22.5	1

9	Efficient, high-performance semantic segmentation using multi-scale feature extraction. <i>PLoS ONE</i> , 2021 , 16, e0255397	3.7	1
8	Angpt2/Tie2 autostimulatory loop controls tumorigenesis.. <i>EMBO Molecular Medicine</i> , 2022 , e14364	12	1
7	Privacy: An Axiomatic Approach. <i>Entropy</i> , 2022 , 24, 714	2.8	1
6	Schnittbilddiagnostik beim duktalem Adenokarzinom des Pankreas. <i>InFo Hämatologie + Onkologie</i> , 2019 , 22, 16-20	0	
5	Zen and the art of model adaptation: Low-utility-cost attack mitigations in collaborative machine learning. <i>Proceedings on Privacy Enhancing Technologies</i> , 2022 , 2022, 274-290	3.2	
4	Artificial Intelligence in Medicine and Privacy Preservation 2021 , 1-14		
3	Segmentation of Peripancreatic Arteries in Multispectral Computed Tomography Imaging. <i>Lecture Notes in Computer Science</i> , 2021 , 596-605	0.9	
2	Artificial Intelligence in Medicine and Privacy Preservation 2022 , 145-158		
1	Artificial Intelligence Will Improve Molecular Imaging, Therapy and Theranostics. Which Are the Biggest Advantages for Therapy? 2022 , 159-170		