Curriculum Vitae

Klaus Maier-Hein Professor, Dr. rer. nat.
d.o.b. December 15th, 1980

University Education

2016	Habilitation, Heidelberg University, Germany
2010	Dr. rer. nat. in Computer Science, Heidelberg University
2003–2006	Diploma in Computer Science, Karlsruhe Institute of Technology (KIT), Germany, with studies abroad at Federal University of Santa Catarina, Brazil, and École polytechnique fédérale de Lausanne, Switzerland

Scientific Career

Since 2021	Managing Director "DKFZ Data Science and Digital Oncology"
Since 2020	Full Professor (W3) at Heidelberg University
Since 2017	Head of Pattern Analysis and Learning Group, Heidelberg University Hospital
Since 2017	Head of Division of Medical Image Computing, DKFZ
Since 2009	University lecturer at Heilbronn University/Heidelberg University
2015–2017	Spokesman of the DKFZ junior group leaders
2014–2017	Head (independent) of Junior Group Medical Image Computing, DKFZ, Germany
2011	Visiting researcher at Harvard Medical School (Prof. Shenton, Prof. Westin, Prof. Pasternak)
2010–2014	Postdoctoral fellow at the Div. of Medical and Biological Informatics, DKFZ (Prof. Meinzer)

Awards and Honors

2020	Winner of Brain Tumor Segmentation (BraTS) Challenge (last author)
2020	Winner of Cardiac Image Segmentation Challenge (last author)
2020	Winner of Aneurysm Detection and Segmentation Challenge (last author)
2019	Winner of Kidney Tumor Segmentation Challenge (last author)
2019	Winner in 11 disciplines of Multi-Atlas Labeling Beyond the Cranial Vault (last author)
2019	Winner of Liver Tumor Segmentation Challenge (last author)
2019	Winner of CHAOS CT-MR Healthy Abdominal Organ Segmentation T3&5 (last author)
2018	Winner of Medical Segmentation Decathlon (last author)
2017	Winner of Automated Cardiac Diagnosis Challenge (last author)
2016	Best Scientific Contribution of the Conference Award (last author)
2015	Johann Peter Süßmilch Medal (Society Medical Informatics, Biometry, Epidemiology)
2015	Award for best paper of the conference (co-author, CURAC 2015, Bremen)
2015	Runner-up for best scientific contribution of conference (last author, BVM 2015)
2014	German High Tech Champions Award in Medical Imaging (RSNA 2014, Chicago)
2013	Award for the best scientific contribution of the conference (congress BVM 2013)
2011	BVM Award for the best scientific thesis of the year (BVM 2011, Lübeck)
2010	Young Academics Award 2010 (NeuroWiss, Frankfurt)

Citation Record

Total citations: 15,750; *h-index: 58; h-index since 2017: 53* (Google Scholar August 12th, 2022)

Top-10 selected Publications

Hering J, Wolf I, **Maier-Hein KH**. "Multi-Objective Memetic Search for Robust Motion and Distortion Correction in Diffusion MRI." IEEE Transactions on Medical Imaging, 35(19): 2280-91, 2016.

Goetz M, Weber C, Binczyk F, …, **Maier-Hein KH**. "DALSA: Domain Adaptation for Supervised Learning from Sparsely Annotated MR Images." IEEE Transactions on Medical Imaging, 35(1): 184-96, 2016.

Maier-Hein KH, Neher P, Houde JC, et al. "The Challenge of Mapping the Human Connectome Based on Diffusion Tractography." Nature Communications, 8(1), 2017.

Neher P, Côté MA, Houde JC, Descoteaux M, **Maier-Hein KH**. "Fiber Tractography Using Machine Learning." NeuroImage 158: 417–29, 2017.

Norajitra T, **Maier-Hein KH**. "3D Statistical Shape Models Incorporating Landmark-Wise Random Regression Forests for Omni-Directional Landmark Detection." IEEE Transactions on Medical Imaging, 36(1): 155-168, 2017.

Bonekamp D, Kohl S, Wiesenfarth M, … **Maier-Hein KH**. "Radiomic Machine Learning for Characterization of Prostate Lesions with MRI: Comparison to ADC Values." Radiology, 289(1):128-137, 2018.

Wasserthal J, Neher P, **Maier-Hein KH**. "TractSeg - Fast and Accurate White Matter Tract Segmentation." NeuroImage, 183: 239-53, 2018.

Kickingereder P, Isensee F, … **Maier-Hein KH**. "Automated Quantitative Tumour Response Assessment of MRI in Neuro-Oncology with Artificial Neural Networks." The Lancet. Oncology, 20(5): 728–40, 2019.

Wasserthal J, Neher P, Hirjak D, **Maier-Hein KH**. "Combined Tract Segmentation and Orientation Mapping for Bundle-Specific Tractography." Medical Image Analysis, 58:1015-59. 2019.

Isensee F*, Jäger P*, Kohl S, Petersen J, **Maier-Hein KH**, „nnU-Net: a self-configuring method for deep learning-based biomedical image segmentation." Nature Methods, (DOI : 10.1038/s41592-020-01008-z)