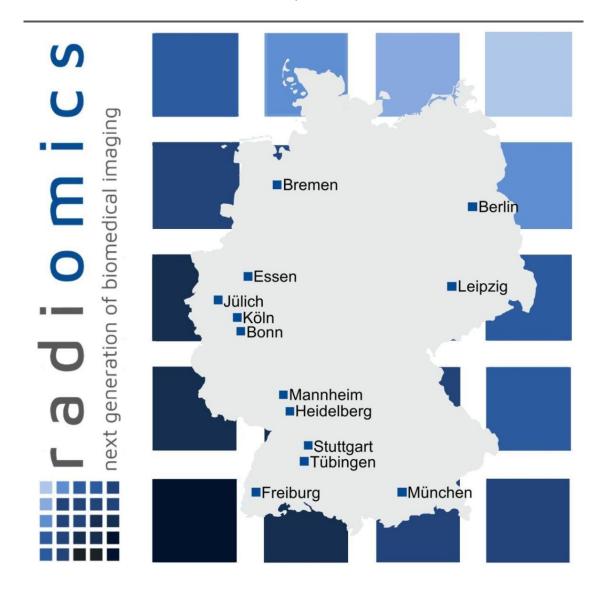


RADIOMICS NEWS

the latest radiomics news, views and announcements



Welcome to the Radiomics Newsletter!

Dear SPP-colleagues,

We are pleased to present you the winter edition of our bi-annual Newsletter, summarizing some of the highlights within the SPP Radiomics programme and it's diverse activities over the last several months. With this issue, we also want to end 2020 and announce important information for the year 2021. Feel free to get in touch with us for any questions, suggestions and comments!

Stay safe, your coordination team

Annual Meeting 2020

Since the start in December 2019, the Priority Program (SPP2177) coordinated by Prof. Dr. Fabian Bamberg, organized it's second program meeting on October 13, 2020, first time as a web meeting given to the restriction due to the corona pandemic.



More than 50 participants gathered to share their first results and the current status of their projects. Beside short online presentations of the ongoing projects, new members of the community could be introduced. Furthermore, framework activities and measures of the first year as well as outlines of future activities were presented by the coordination team. The meeting closed with an interesting talk on the medical information initiative and a fruitful discussion that showed the high potential of collaborative efforts to advance the individual projects but also the entire field in biomedical imaging research.

Next program meeting is planned for summer 2021.

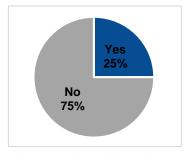
Gender Equality - Calls 2020

The SPP 2177 is taking the opportunity to support young families and try to improve the conditions of female / male researchers. For the year 2020 the SPP 2177 was able to promote following activities:

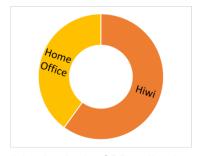


- STUDENT-ASSISTANT (HIWI) SUPPORT
- HOME OFFICE WORKING PLACES

The following pictures illustrate all gender equality measures within the Calls 2020.



Is a project member taking advantage of gender equality measures at your site?



Participation in the SPP radiomics call 2020 (hiwi position/home office places).

A total of **five** applicants received funding – congratulations!

The next chance to apply for equality funds will be in May 2021. Further information to our upcoming calls coming up soon

Most outstanding evaluation results

The evaluation of the annual report served as an overview of the current status of the individual projects. Therefore, we are pleased to present you the most outstanding evaluation outcome of the first annual report.

Thereby the results of this report demonstrated that all projects started quite well and had already achieved some of their project aims. Above all, the annual report quote the network's growth since December 2019, as illustrated below in Figure 1.



Figure 1: Current size of the SPP2177 consortium.

Furthermore, an initial success in terms of content is already evident in all projects, this is also reflected in their first publications. Figure 2 shows the number of publications within the particular projects. In order to give you an overview of the variety of publications, we have summarized all titles in Figure 3.

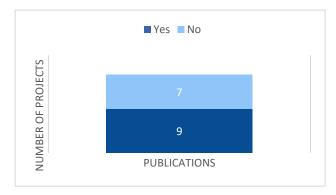


Figure 2: Number of projects with and without publications.

The program committee and project office look forward to the next two years of top-level research and to an exciting time together.

Automated Detection and Segmentation of Thoracic Lymph Nodes from CT Using 3 Foveal Fully Convolutional Neural Networks	prostate cancer: compar PSMA-PET/CT and spec	Lymph node metastases in prostate cancer: comparison of PSMA-PET/CT and spectral detector CT derived iodine uptake		Automated Mapping of Thoracic Lymph Nodes Using Foveal Fully Convolutional Networks	
Multiparametric Modelling of Survival in Pancreatic Ductal Adenocarcinoma Using Clinica Histomorphological, Genetic a Image-Derived Parameters	Atic Ductal Jsing Clinical, Image-Based Molecular J, Genetic and Phenotyping of Pancreatic		Age-Net: An MRI-Based Iterative Framework for Biological Age Estimation: IEEE Transactions on Medical Imaging, 2021		
MRI-Based Biological Age Estimation Via Bayesian Neura Networks: IEEE ICASSP, 202			Hybrid FET PET/MRI radiomics for prediction of the MGMT promoter methylation in patients with gliomas		
Evaluation of FET PET radiomics feature repeatability in patients with	Radiomics in radiation onco basics, methods and limitati			of radiomics and ning for radiotherapy orain tumors.	
PET/MRI Radiomics in Patients With Brain Metastases.	Feature-based PET/MRI radiomics in patients with brain tumors. Non-invasive prediction of the MGMT promoter methylation using	Validation of diffusion MRI phenotypes for predicting response to bevacizumab in recurrent glioblastoma: post- hoc analysis of the EORTC-26101 trial.		Noninvasive Characterization of Tumor Angiogenesis and Oxygenation in Bevacizumab- treated Recurrent Glioblastoma by Using Dynamic Susceptibility MRI: Secondary Analysis of the European Organization for Research and Treatment of Cancer 26101 Trial.	
Radiomics in neuro- oncology: Basics, workflow and applications.	combined FET PET/MRI radiomics. (ePoster presentation at the 25th Anniversary Virtual Meeting of the Society for Neuro-Oncology (SNO), November 19-21, 2020)	Deep-Learning Generated Synthetic Double Inversion Recovery Images Improve Multiple Sclerosis Lesion Detection.			

Figure 3: Titles of all Publications in SPP2177 so far.

IMPORTANT ANNCOUNCEMENT

Upcoming Events 2021

07.-09. **BVM Workshop 2021**

MARCH Regensburg Medical Image Computing

OTH Regensburg

www.bvm-workshop.org

JUNE MID-TERM MEETING

Further information coming up soon!

Calls 2021

Shortly you will receive via E-Mail further information to our upcoming calls:

Home Office Working Places

Student-Assistent (HIWI) Support

Early Stage Researchers

Notes for publications

Please pay attention to include your funding as follows: "funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) - project number*/SPP 2177". *You will find the project number on your letter of approval of the DFG.

We wish you and your families Merry Christmas and a successful start in 2021!





