

Georg Schramm

Short Biography:

Georg Schramm is an Assistant Professor in Molecular Image Reconstruction and Analysis at KU Leuven. His research focusses on enhancing the diagnostic image quality of molecular images through advanced modeling of imaging systems, implementing cutting-edge reconstruction algorithms and applying sustainable machine learning techniques.

Abstract:

In this presentation, we showcase the application of convolutional neural networks for anatomically-guided PET reconstruction in image space, leveraging readily available standard DICOM images. This innovation drastically reduces reconstruction times, transitioning from minutes to mere seconds, making it a viable solution for seamless integration into clinical practice. Additionally, we share our experiences in implementing machine-learning-based reconstruction solutions at three distinct clinical sites and delve into future requirements in this domain.