

George Soultanidis

Short Biography:

Georgios (George) Soultanidis, is a Postdoctoral fellow with the BioMedical Engineering and Imaging Institute at Mount Sinai. He has received his BSc from the TEI of Athens in Biomedical Engineering and his MSc in Medical Physics from the University of Patras. He got his PhD from King's College London, where he worked on developing motion phantoms for simultaneous PET/MR systems. He currently works on the development and implementation of novel methods of motion correction in cardiovascular PET/MR imaging, as well as implementing AI and radiomics analysis to improve image quality and diagnostic power.

Abstract:

Artificial intelligence (AI) and machine learning (ML) are rapidly transforming the field of nuclear medicine, including cardiovascular imaging. In this talk, I will present some of the latest developments and applications of AI and ML in nuclear cardiology and vascular imaging in quantification, diagnosis, prognosis, and treatment planning. We will also discuss some of the challenges and opportunities for integrating AI and ML into clinical practice, such as data quality, validation, interpretability, and ethics. Finally, we will highlight future directions and research needs for advancing AI and ML in nuclear medicine for cardiovascular imaging.