

Lalith Kumar Sundar

Short Biography:

Dr. Lalith Kumar Shiyam Sundar is a postdoctoral researcher at the Medical University of Vienna, with a focus on medical image analysis. He completed his Bachelor's degree in Biotechnology at Anna University in India, and subsequently earned his Master's in Biomedical Engineering from RWTH Aachen, Germany. Dr. Shiyam Sundar furthered his studies with a PhD in Medical Physics from the Medical University of Vienna, Austria. His research interests are centered on molecular imaging and total body PET/CT, with a specialized emphasis on automated medical image analysis.

Abstract:

The growing role of Positron Emission Tomography (PET) in medical diagnostics demands more efficient and accurate image segmentation techniques for better clinical outcomes. Traditional segmentation methods often require significant human intervention and expertise, making them less scalable and potentially error-prone. This talk aims to explore the capabilities and advancements in AI-driven PET image segmentation, demonstrating how machine learning algorithms can automate and improve the accuracy of tissue differentiation and lesion detection. By examining key algorithms, validation methodologies, and real-world applications, we will delve into the potential of AI to augment PET image analysis.