Faculty Position in Deep Learning MRI Acquisition and Reconstruction

The Department of Medical Physics at Memorial Sloan Kettering Cancer Center (MSK) is offering an Assistant or Associate level faculty position in deep learning MRI acquisition and reconstruction.

The specific goals for this position are:
1- To develop novel MRI acquisition and reconstruction methodology using artificial intelligence (AI) techniques to reduce scan time without decreasing imaging quality and to enable free-breathing scans with increased image quality for cancer applications, including detection, diagnosis, and treatment response evaluation.
2- Translate the developed methodology to the routine clinical MRI program at MSK in collaboration with an industrial partner and clinicians.

The successful candidate will have the opportunity to collaborate with physicists and engineers in the department of Medical Physics, as well as radiologists and oncologists, and other clinicians at MSK. The candidate will also be able to submit independent grant proposals and establish a research lab.

Facilities: Research time on state-of-the-art clinical MRI scanners (1.5T and 3T GE Healthcare). Access to high performance computer servers with GPUs for the development of deep learning reconstruction algorithms. MSK is located on the Upper East Side of Manhattan and is recognized as a world leader in clinical cancer care and research.

Requirements: Candidates should have a PhD in Engineering, Computer Science, Physics, or a related area, with at least two years of experience after graduation. The successful candidate must demonstrate expertise in deep learning development, potential for future exceptional research including obtention of extramural funding, and clinical translation in collaboration with an industrial partner. Experience in the application of deep learning techniques to MRI is a plus.

To apply: Please submit a CV and Career Statement to Dr. Ricardo Otazo, Vice-Chair for Research and Chief of MRI Physics, Department of Medical Physics at otazotoj@mskcc.org. The career statement should describe past achievements and outline brief goals related to this position.

The deadline for applications is **March 31, 2023.**