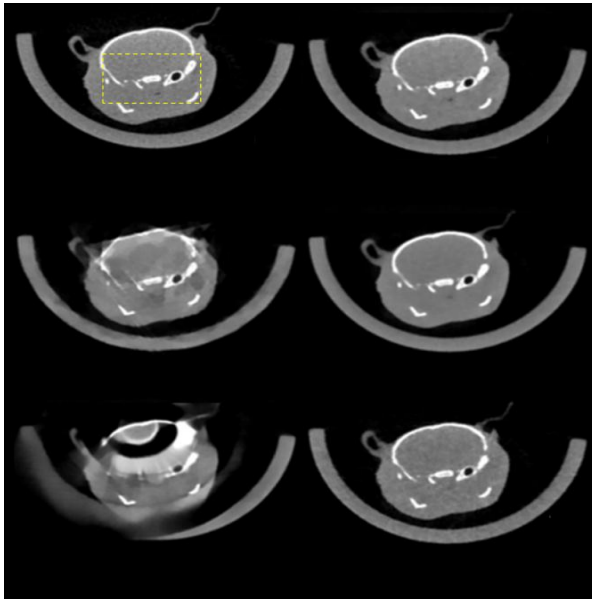




PIEAS Colloquium

Sparse Sample Scheme in CT Image Reconstruction



By
Dr. Sajid Abbas
DGD, PAEC
Islamabad

Wednesday, 11-10-2017
at
14:00 hrs
in
PIEAS Lyceum

All are cordially invited

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Dr. Sajid Abbas obtained his MS and PhD in Nuclear Engineering, from the Dept. of Nuclear and Quantum Engineering at Korea Advanced Institute of Science and Technology, South Korea. His PhD thesis title is "Investigation of Sparse Sampling Schemes for Computed Tomography (CT) in Compressive Sensing-based Iterative Image Reconstruction Framework". He extensively worked on devising sparse sampling schemes for Low-Dose CT and fast non-destructive testing (NDT) techniques. Moreover, he implemented two metrics – sampling density and data incoherence for analyzing the sparse sampling schemes to improve quality of reconstructed images. He also proposed a new scanning scheme for NDT named "spherical sinusoidal" which outperforms the existing computed laminography scanning scheme in term of image contrast and image resolution.

Currently he is working as a principal engineer in Directorate of Equipment Design, Directorate General of Design, Pakistan Atomic Energy Commission.