

Inverse problems in X-ray phase retrieval and tomography

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Improving Tomographic Reconstruction and Analysis Using Mixed-Scale Dense Convolutional Neural Networks

In tomography, acquired projection data are often limited in one or more ways due to unavoidable experimental constraints, leading to inaccurate images. Using machine learning to improve image quality in tomography is a recently proposed solution, for which promising results have been shown. In this talk, I will present the use of Mixed-Scale Dense convolutional neural networks to improve tomographic reconstruction from (severely) limited data, and present a new software package for training and applying such networks in practice.

Session Classification : talks with tutorials / hands-on