

Conference Agenda

Session

SES-03: Deep Learning and Visualization Techniques

Time: Wednesday, 05/Feb/2025: 1:40pm - 3:20pm

Presentations

Super-resolution X-ray tomography for architected lattice materials using artificial intelligence

Antoine Klos, Luc Salvo, Pierre Lhuissier

Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMAP, F-38000 Grenoble, France

DIPNet: Integrating Deep Image Prior into Kernel Basis Network for Noise Suppression in Edge Illumination Phase Contrast X-ray Imaging

Neam Halat, Jan Sijbers, Jan De Beenhouwer

imec vision lab, Department of Physics, University of Antwerp

Dual Domain Swin Transformer based Reconstruction method for Sparse-View Computed Tomography

Jonas Van der Rauwelaert, Caroline Bossuyt, Jan Sijbers

University of Antwerp, Belgium

Visual Exploration of Large SCT Scans using AccuStripes

Anja Heim¹, Thomas Lang¹, Christoph Heinzl^{1,2}

¹Fraunhofer Institute for Integrated Circuits IIS, Division Development Center X-ray Technology, Germany; ²University of Passau, Germany

Deep Incremental Angle Refinement Model for Limited-Angle CT Reconstruction - A Case Study on Concrete Specimens

Xingyu Liu, Guangpu Yang, Faizan Ahmad, Ammar Alsaffar, Steffen Kiess, Sven Simon

Department of Computational Imaging Systems, ITI, University of Stuttgart, Germany