



Contribution ID: 58

Type: **Talk**

Real-time Imaging Pipelines for Tomography

Tuesday 14 May 2024 14:30 (45 minutes)

Computed Tomography (CT) is a powerful technique for 3D imaging of the interior of a wide range of objects, with applications in medicine, industry, and science. As a mixed experimental-computational method, it can be combined with various imaging modalities including X-ray imaging, optical imaging, and electron microscopy. In this lecture I will discuss the various challenges involved in speeding up the tomography pipeline towards the point where the object can be analyzed in full 3D during the scan. Real-time 3D imaging leads to the opportunity of adjusting the scanning process in real-time, which in turn paves the way for developing “intelligent” CT-systems that can interact with the operator to achieve more informative data acquisition.

Primary author: Prof. BATENBURG, Joost (Leiden University, NL)

Session Classification: Keynote by Joost Batenburg: Real-time Imaging Pipelines for Tomography