

Fourth MODE Workshop on Differentiable Programming for Experiment Design



Contribution ID: 12

Type: **not specified**

Segmentation and anomaly detection on Muon Tomography applied to the inspection of containers

Tuesday 24 September 2024 09:40 (20 minutes)

Muon Cargo is a project funded by the Spanish Port Authority aiming at installing a Muography portal for container inspection in the port of Santander. This talk offers a panoramic of the status of the project focusing on the development of two AI algorithms: a YOLOv8 based system to perform semantic segmentation on POCA-based images, and a Variational Autoencoder to identify unusual, unexpected geometrical patterns in the containers.

Author: DIEZ, Carlos (Muon Tomography Systems S.L.)

Presenter: DIEZ, Carlos (Muon Tomography Systems S.L.)

Session Classification: Muography

Track Classification: Muography