

# **Securing the Seas: Harnessing Generative AI for Maritime Infrastructure Protection**

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## **Abstract:**

This talk provides an overview of the research conducted at the DLR Institute for the Protection of Maritime Infrastructures, with a specific focus on the practical application of Generative AI. We will delve into two key aspects: firstly, the utilization of domain transformation for anomaly detection in maritime data, and secondly, the strategic use of synthetic data for training. By discussing these methods, we aim to shed light on the potential benefits and challenges associated with integrating Generative AI into maritime security protocols. Join us in an exploration of the application of these technologies in the protection of maritime infrastructures.