

From imaging algorithms to quantum methods Seminar

Report of Contributions

Contribution ID : 1

Type : **not specified**

DSS-GAN (Directional State Space GAN): A Generative Adversarial Network with Directional State Spaces Utilizing the Mamba Architecture

Monday, 20 April 2026 10:00 (60)

DSS-GAN is the first generative adversarial network to utilize the Mamba architecture as a hierarchical generator, synthesizing images from noise under class-conditional settings. The key contribution is the Directional Latent Routing (DLR) mechanism, which decomposes the latent vector and class signal into direction-specific sub-vectors, each independently conditioning the corresponding scanning direction along various spatial axes of the feature map.

Presenter(s) : OGONOWSKI, Aleksander

Contribution ID : 2

Type : **not specified**

Discussion

Monday, 20 April 2026 11:00 (30)