

CEA-LSEA: Out-of-Distribution Detection in DNN Latent Space Uncertainty

Description

CEA-LSEA package for Out-of-Distribution (OoD) detection in DNN latent space.

The package currently supports the following DNN architectures for semantic segmentation:

- Deeplabv3+
- Probabilistic U-Net

In both cases, the DNN were slightly modified to capture *epistemic* uncertainty using the Monte-Carlo Dropout.

approach, and adding a `DropBlock2D` layer.

To train the OoD detector, we assume access to In-Distribution (InD) and OoD Samples.

Requirements

ToDo!

Installation

ToDo!

Usage

For detailed usage procedure, check this [document](#)

Publications and Technical Reports

For more technical and implementation details, we refer the user to the following technical reports and publications:

Technical Reports:

- EC3-FA06 Run-Time Monitoring
- EC3-FA18 Run-Time Monitoring

Publications

- Out-of-Distribution Detection using Deep Neural Network Latent Space

License

ToDo!