

Gebietsseminar/ Area Seminar: Deep Learning for Maritime Vision Applications

Deep Learning for Maritime Vision Applications is a hands-on, team-based seminar in which students apply modern computer vision methods to real-world marine data. Students gain practical experience with Python and PyTorch, convolutional neural networks, vision transformers, and foundation models. They learn to explore datasets, design and evaluate experiments, interpret results and failure cases, and document a reproducible machine-learning workflow. The seminar also develops teamwork and scientific communication skills through peer feedback, a research poster, and a short presentation.