Neural Video Depth Stabilizer

Input Video

Depth Predictor

Reference Frames

Stabilization Network

Target Frame

Output Video Depth

Sliding Window

Stabilization Network

RGB-D inputs

Feature Encoding

Cross-Attention Module

Depth Decoder

Training

Depth Predictor

Stabilization Network

Fixed

Single Direction

Inference

Depth Predictor

Stabilization Network

Reconfigurable

Bidirectional