NO CONTROLL 11-17

Training Set

Intel RealSense VOID

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Code available at: https://tinyurl.com/euuc443t





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VOID





NYU v2

Outputs of existing work

Calibrated Backprojection Layer

Sparse-to-dense

Depth Encoder Branch

RGB 3D Encoder Branch

Decoder

Concatenation



Outputs of our method





Results in a spatial Euclidean 3D positional encoding of the image

depth onto the 3D scene

Calibrated Backprojection Network (KBNet)

Sparse-to-dense learns dense or quasi dense representation from sparse point cloud

Calibrated Backprojection (KB) layers maps camera intrinsics, input image, and the imputed

Allows different calibration to be used at inference time to improve generalizability

