

On Joint Estimation of Pose, Geometry and svBRDF from a Handheld Scanner

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Input Images



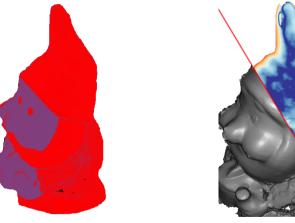
Observation



Reconstruction



$$\mathcal{X}^* = \operatorname*{argmin}_{\mathcal{X}} \mathcal{L}(\mathcal{X})$$



Meaningful Segmentation

10.0 mm 1.0mm 0.1 mm

Accurate Geometry



Relighting



Relighting



Novel Viewpoint





$https://github.com/autonomousvision/handheld_svbrdf_geometry$

