Eurographics Symposium on Geometry Processing 2023
P. Memari and J. Solomon
(Guest Editors)

COMPUTER GRAPHICS *forum*
Volume 42 (2023), Number 5

3D Keypoint Estimation using Implicit Representation Learning – Supplementary Material

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We have provided elaborate implementation details and comparison results in our main paper. In this supplementary material, we present more qualitative results of keypoint estimation. As shown in Figure 1, we show keypoint estimation results using different representation learning, i.e., direct coordinate regression, heatmap inference, and SDF learning. Our method based on SDF learning outperforms others for both complete and partial point cloud inputs.

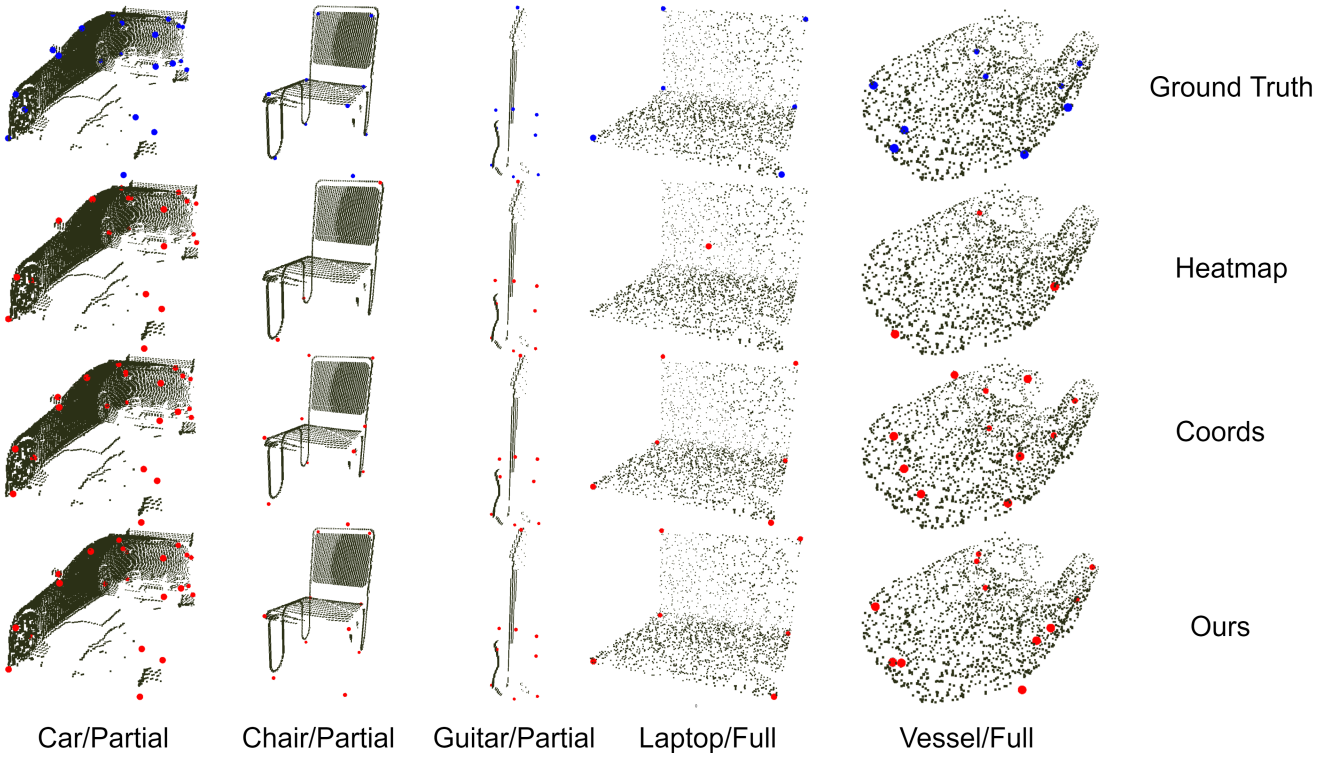

Figure 1: *The visual comparison of keypoint estimation for three types of representations ('Coords' means coordinate regression, and 'Heatmap' means heatmap inference). Here, the word full or partial represents the input point cloud full (complete) or partial. Our method is based on SDF representation.*