

Supplementary for Multi-user, Scalable 3D Object Detection in AR Cloud

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1. Scene Snapshots

Figure 1 shows the ScanNet scene snapshots when using centralized approach with 1 user or distributed approach with 10 or 50 users. First column shows results of the centralized approach with 1 user. 2nd column shows results of the distributed approach with 10 users and the 3rd column with 50 users. Each row represents a different ScanNet scene. Ground-truth boxes are shown in blue whereas estimated boxes are shown in red. First three rows contain good predictions whereas the last row includes some erroneous predictions (sofa in column 2 with 10 users).

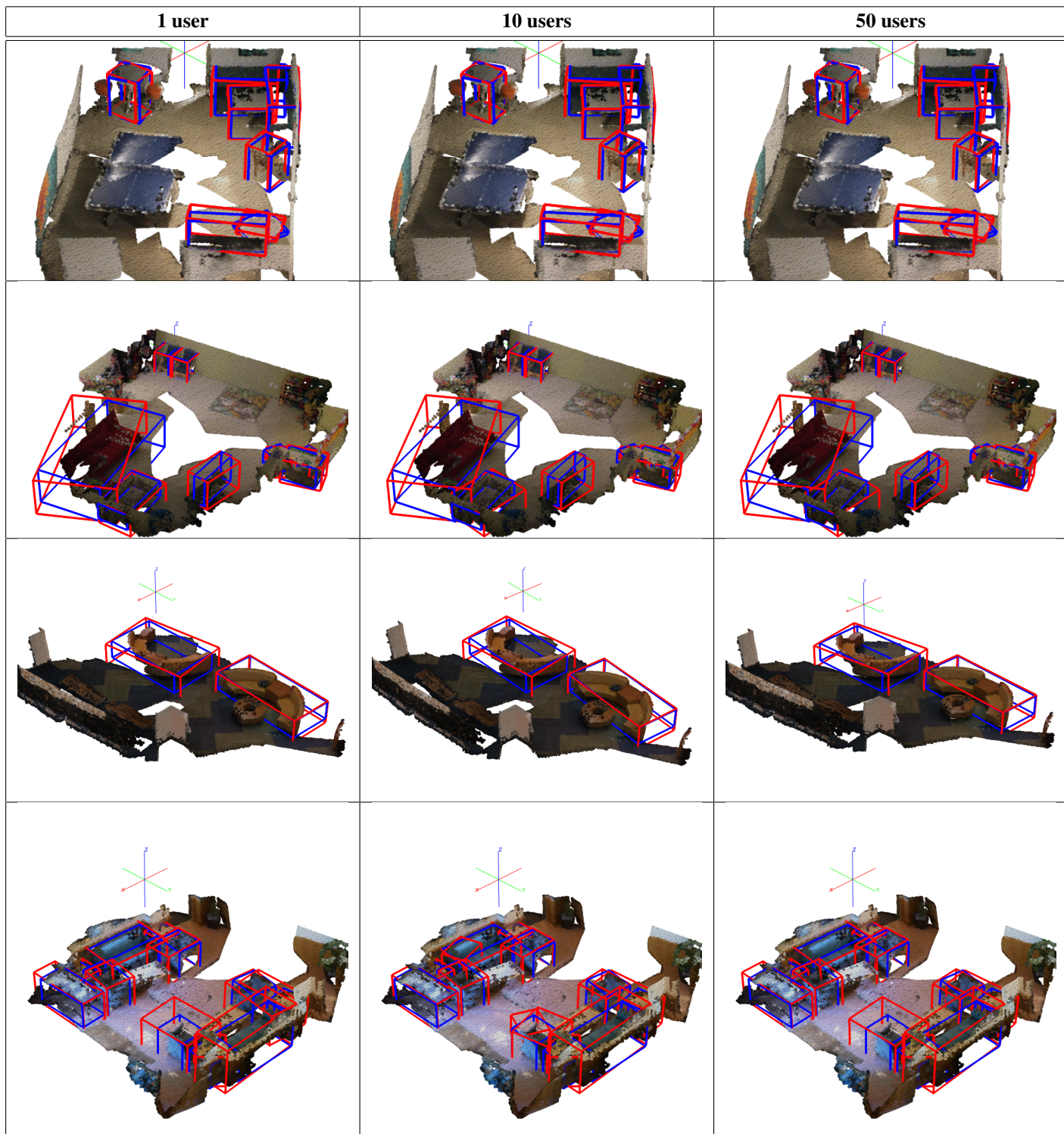


Figure 1: Comparison of 3D bounding boxes found in a scene while using centralized (1 user) vs distributed (10 and 50 users) approach. First column shows results of the centralized approach with 1 user. 2nd column shows results of the distributed approach with 10 users and the 3rd column with 50 users. Each row represents a different ScanNet scene. Ground-truth boxes are shown in blue whereas estimated boxes are shown in red. First three rows contain good predictions whereas the last row includes some erroneous predictions (sofa in column 2 with 10 users).