

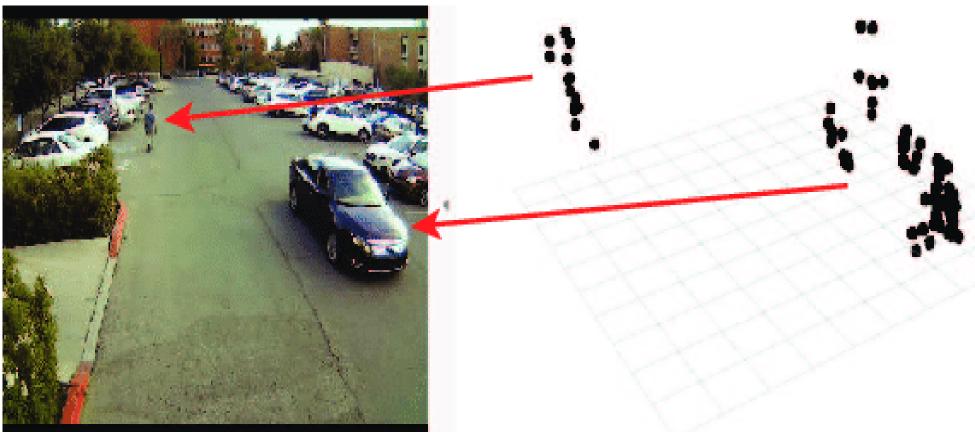
Massachusetts Institute of Technology



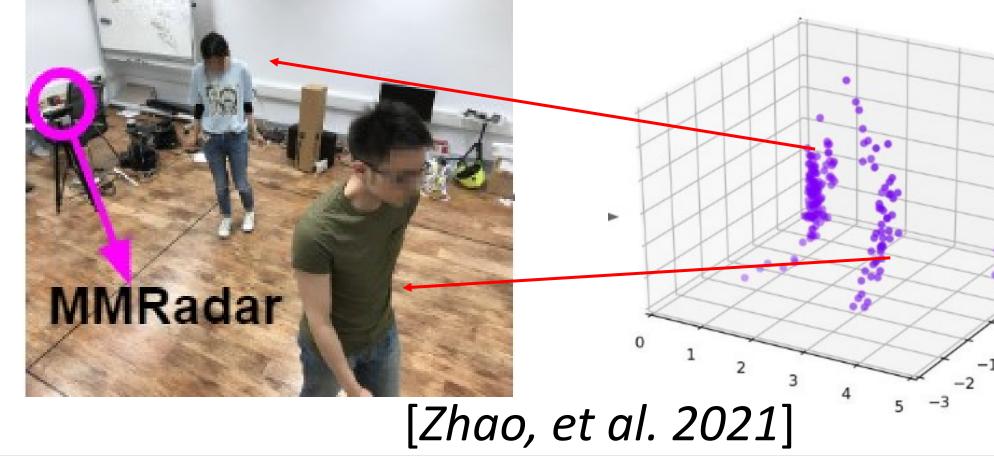
Motivation:

- > The main disadvantage of mmWave radar is that it produces rather sparse data, because the radio waves emitted by radar have weak straightness. In addition to wavelength problems, inherent noise is also a cause of the sparsity in radar data. [Lee, et al. 2022]
- > This causes inaccurate results because the quality of the generated point cloud has a significant effect on the accuracy and effectiveness of the subsequent data process. [Zhang, et al. 2022]

mmWave point clouds are sparse and noisy!!!



[*Jin, et al. 2019*]



mmPoint: Dense Human Point Cloud Generation from mmWave Qian Xie, Qianyi Deng, Ta-Ying Cheng, Peijun Zhao, Amir Patel, Niki Trigoni, Andrew Markham



Method:

deformation task.

difficulty.

