

PoseFusion2: Simultaneous Background Reconstruction and Human Shape Recovery in Real-time

Huayan Zhang¹, Tianwei Zhang¹,

Tin Lun Lam^{1,2} and Sethu Vijayakumar^{3,4,1}

¹AIRS, China ²CUHK-SZ, China ³University of Edinburgh, UK

⁴The Alan Turing Institute, UK

- We propose a real-time dynamic SLAM solution with human object recovery
- We apply learning-based methods to track moving humans and to filter the background's residual human bodies
- We recover human shapes using SMPL models for robot interaction.



Human shapes are recovered to together with backgrounds.