GIMO: Gaze-Informed Human Motion Prediction in Context

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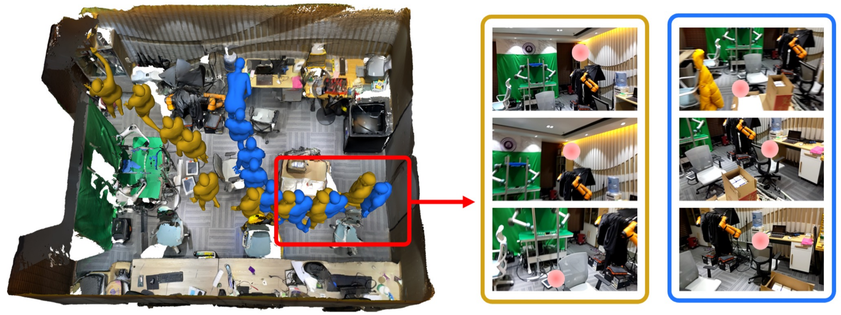
Introduction

➢ Goal

To enable accurate human motion prediction by incorporating the intention clues extracted from human gaze.



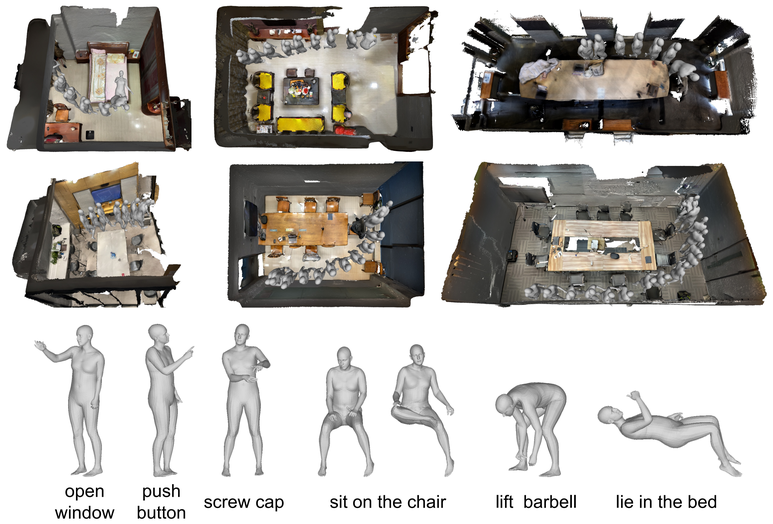
Contributions

- **A large-scale dataset** that features ego-centric **eye gaze** information, high-quality **human motion** and **3D scene context**.
- **A novel architecture** that leverages **bidirectional disambiguation** to improve the accuracy of gaze-informed motion prediction.

GIMO dataset

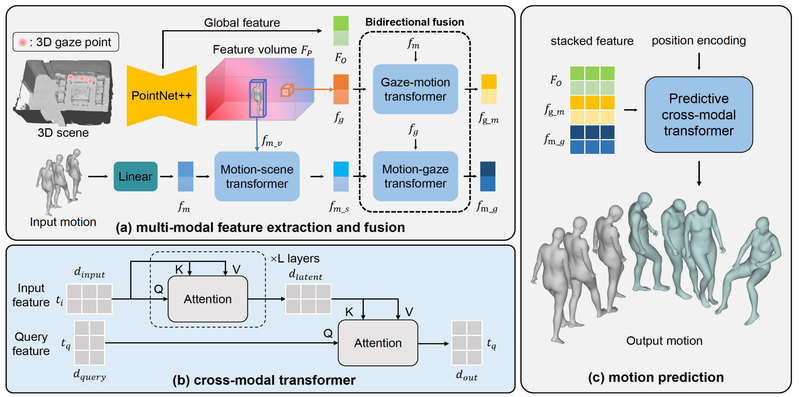
➢ Hardware setup

➢ Dataset overview: intention-aware motions

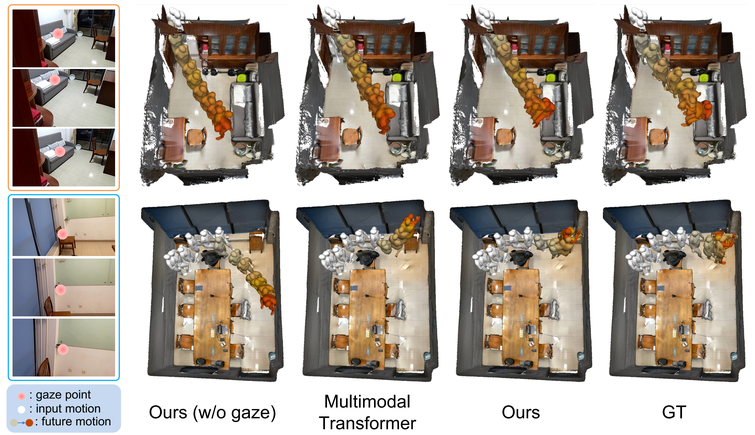


Gaze-informed motion prediction

➢ Proposed pipeline

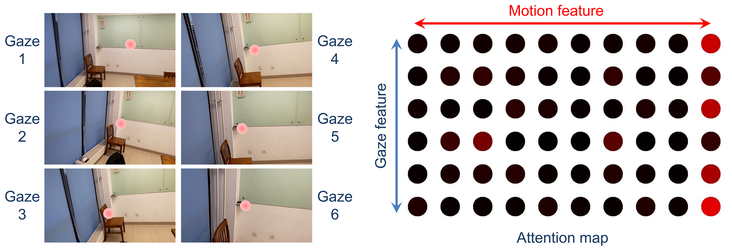


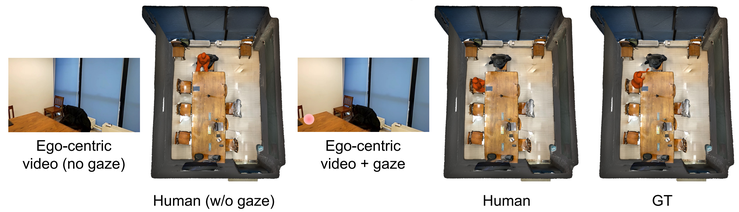
➢ Qualitative results



➢ Visualization of attention weights

- Gaze data help to predict the destination of the future motion.



➢ Human performance in motion prediction

- Gaze information improves human's performance.