Supplementary Material for HOIMotion: Forecasting Human Motion During Human-Object Interactions Using Egocentric 3D Object Bounding Boxes

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Questionnaire of Human Motion Prediction

IMPORTANT: Please read it carefully before doing the test.

In this test, you will see the ground truth (GT) human motions (in **blue**) and the predictions of different methods (in **read**). You are supposed to rank different methods based on two criteria: **precision** and **realism**.

Precision: check different methods to see whether they **align with the ground truth** and rank them based on your observation (rank 1-3, 1 means the best).

Realism: check different methods to see whether they are **physically plausible** and rank them based on your observation (rank 1-3, 1 means the best).

There are **20** tests in total and the test order is randomised.

Note that you need to have **normal or corrected-to-normal vision** to do the test.

Suggestion: (1). Rank the three methods based on your observations, e.g. from best to worst: method 3, 2, 1 (2). For each column in the form (rank 1-3), select the corresponding method ID. We suggest you to **fill the form column by column**. This can avoid setting two methods to the same ranks.

Fig. 1: Detailed instructions for the participants before the user study.

1 Details of the User Study

Detailed instructions for the participants before the user study are shown in Figure 1. An example of the test sample used in the user study is illustrated in Figure 2.

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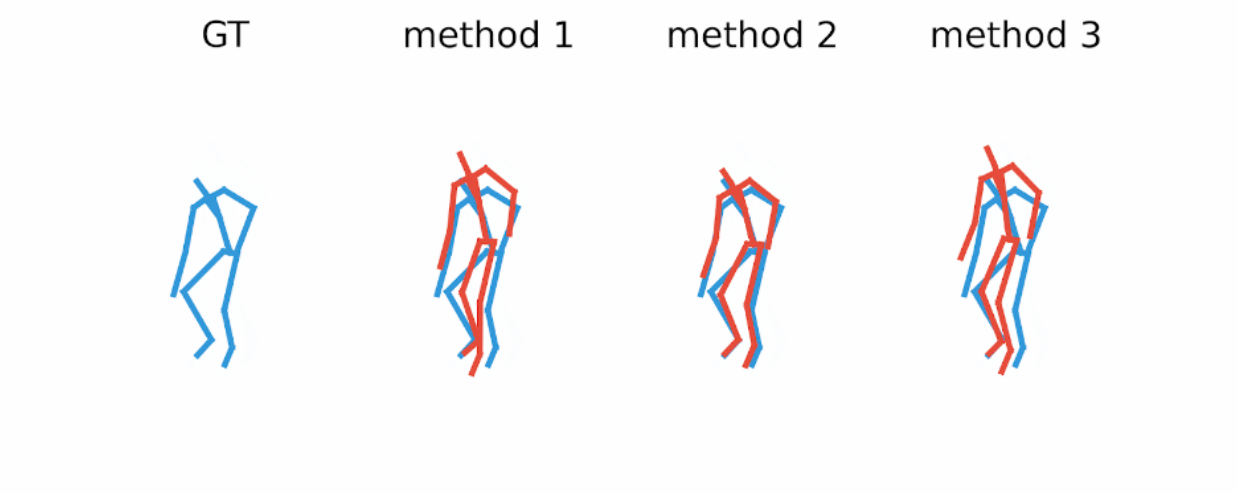
Test 1 *

Rank different methods based on precision and realism



	Rank 1 (Best)	Rank 2	Rank 3 (Worst)
method 1 - precision	○	○	○
method 2 - precision	○	○	○
method 3 - precision	○	○	○
method 1 - realism	○	○	○
method 2 - realism	○	○	○
method 3 realism	○	○	○

Fig. 2: An example of the test sample used in the user study.