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Citation (text) :

Raphael Lorenzo-Louis, Fabio Amadio, Bertrand Luvison, Serena Ivaldi. HUI360 : A 360° Egocentric Dataset and Baselines for Human-Robot Interaction Anticipation. <i>FG 2026 - IEEE International Conference on Automatic Face and Gesture Recognition</i> , IEEE Biometrics, May 2026, Kyoto, Japan. hal-05609928

Citation (bibtex) :

```
@inproceedings{lorenzolouis:hal-05609928,  
  TITLE = {{HUI360 : A 360\textdegree Egocentric Dataset and Baselines for  
Human-Robot Interaction Anticipation}},  
  AUTHOR = {Lorenzo-Louis, Raphael and Amadio, Fabio and Luvison, Bertrand and  
Ivaldi, Serena},  
  URL = {https://hal.science/hal-05609928},  
  BOOKTITLE = {{FG 2026 - IEEE International Conference on Automatic Face and  
Gesture Recognition}},  
  ADDRESS = {Kyoto, Japan},  
  ORGANIZATION = {{IEEE Biometrics}},  
  YEAR = {2026},  
  MONTH = May,  
  KEYWORDS = {Human robot Interaction ; Computer vision ; Robotics ; AI ; Vision},  
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  HAL_ID = {hal-05609928},  
  HAL_VERSION = {v1},  
}
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¹ <https://eur-lex.europa.eu/FR/legal-content/summary/general-data-protection-regulation-gdpr.html>
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For Inria : La déléguée à la protection des données
Inria, 2004 route des Lucioles, BP 93, 06902 Sophia- Antipolis Cedex
dpo@inria.fr

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(e-mail address) _____

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(job title) _____

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☐ Permanent

☐ Non-Permanent

(work place/academic institution)

(name) _____

(address line 1) _____

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(city) _____

(state/region) _____

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(country) _____

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Name and email of the additional researchers with access to the dataset (please indicate their role, if they are subsidiaries and/or students):

Signature

(by the person authorized to bind the Licensee)

Appendix A – Description of the HUI Dataset

The HUI Dataset is a dataset including about 4300 participants.

The aim of the database is to enable researchers to develop, evaluate, and benchmark methods for human–robot interaction understanding and anticipation, including interaction intention prediction, human behavior modeling, multimodal perception, computer vision, machine learning, and robotics. More broadly, it supports research on socially aware robotic systems operating in unconstrained public environments.

The Dataset includes the following data:

- Egocentric 360° RGB video recordings acquired from the robot.
- Front-facing RGB-D video recordings.
- Automatically generated annotations, including person detection, tracking identities, 2D body poses, facial keypoints, and segmentation masks.
- Human-robot interaction annotations indicating whether and when participants interact with the robot.
- Associated metadata describing recording sessions, timestamps, and sequence information.