

# Innsbruck Multi-View Hand Gestures (IMHG) Dataset

Hand gestures are one of the natural forms of communication in human-robot interaction scenarios. They can be used to delegate tasks from a human to a robot. To facilitate human-like interaction with robots, a major requirement for advancing in this direction is the availability of a hand gesture dataset for judging the performance of the proposed algorithms.

## Dataset Features

- 22 participants performing 8 hand gestures in context of human-robot interaction scenarios taking place in close proximity.
- 8 hand gestures categorized as: (1) 2 types of referencing (pointing) gestures with the ground truth location of the target pointed at, (2) 2 symbolic gestures, (3) 2 manipulative gestures, (4) 2 interactional gestures.
- Hand gestures recorded from two views using RGB-D Kinect sensor.

[Download](#)

## Reference

Dadhichi Shukla, Ozgur Ercent, Justus Piater, The IMHG dataset: A Multi-View Hand Gesture RGB-D Dataset for Human-Robot Interaction. Towards Standardized Experiments in Human Robot Interactions, 2015 (Workshop at IROS). Extended Abstract.[PDF](#).

## BibTex

```
@InProceedings{Shukla-2015-StandardHRI,  
  title = {{The IMHG dataset: A Multi-View Hand Gesture RGB-D Dataset for  
Human-Robot Interaction}}},  
  author = {Shukla, Dadhichi and Ercent, Ozgur and Piater, Justus},  
  booktitle = {{Towards Standardized Experiments in Human Robot  
Interactions}}},  
  year = 2015,  
  month = 10,  
  note = {Workshop at IROS},  
  url = {https://iis.uibk.ac.at/public/papers/Shukla-2015-StandardHRI.pdf}  
}
```

## Acknowledgement

The research leading to these results has received funding from the European Community's Seventh Framework Programme FP7/2007-2013 (Specific Programme Cooperation, Theme 3, Information and Communication Technologies) under grant agreement no. 610878, [3rd HAND](#).

## Contact

dadhichi[dot]shukla[at]uibk[dot]ac[dot]at

From:  
<https://iis.uibk.ac.at/> - IIS

Permanent link:  
[https://iis.uibk.ac.at/research/projects/3rdhand/imhg\\_dataset?rev=1450042883](https://iis.uibk.ac.at/research/projects/3rdhand/imhg_dataset?rev=1450042883)

Last update: **2018/09/03 14:57**

