

# Adaptive and Learning Robots that Predict and Understand Human Motions in a Dynamic Environment

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## Abstract:

The ability to predict and understand the behavior of humanoid robots can be measured and precisely evaluated. In a set of experiments we show what it means to be “life-like” for a robot that interacts with naive subjects in various types of actions. It can be shown that the behavior of the robot can be made natural and predictable thus increasing our confidence in machines that may one day populate our homes. In two experiments I will show how predictive gaze and motor resonance can be utilized to evaluate our perception of the robot movements.

## References

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