

# Efficient Goal Estimation for Intelligent Systems

## Applications

- Interpretation of human behavior
- Analysis of web experience
- Robot control by imitation

## Problem & Solution

To build intelligent systems/robots or understand the behaviour of decision makers, it is important to estimate the goal of human or animal subject behaviours by observation.

This technology is a model-free algorithm to estimate the goal of decision makers from their behavioural data with less memory usage and computational cost. In addition, the action selection policies can be recovered more effectively than other known methods.

## Benefits

- Small datasets for analysis
- Reduced memory usage
- Reduced computational cost

## Patent Pending

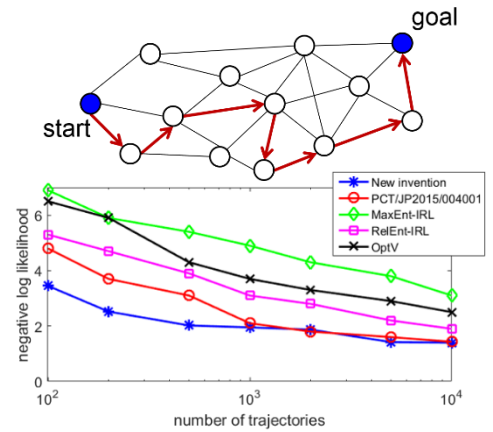
## Keywords

Objective function, goal estimation, intelligent systems, robotics, robot control, inverse reinforcement learning

## For more information

Business Development/Technology Licensing Section

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Top: decision tree showing choice of path from start to goal in a 2-dimensional space. The path from the start to the goal is determined by the objective function. Bottom: comparison of known methods and this technology (shown in blue) to recover the observed policy.