

Activity Recognition Meets Automated Planning

Daniel Borrajo

Universidad Carlos III de Madrid
Avda. de la Universidad 30
28911 Leganés (Madrid), Spain
dborrajo@ia.uc3m.es

Automated planning deals with the task of generating plans of actions that achieve a set of goals from an initial state. Planners take as input a declarative domain model that includes the description of available actions. In some domains, such as helping elderly people at home, providing a detailed and complete domain model is a hard task. An alternative is to automatically learn such models from sensory data extracted from the actions execution by the user. This talk will present recent work on learning action models for automated planning that allow the planner later to monitor the user, recognizing daily activities and suggesting continuation plans when deviations are detected.