Abstract

The design of natural interaction with social robots is highly complex process, given the huge design space of robots in terms of appearance and behaviour and the challenges arising when using face detection and speech recognition in the wild. More natural and highly autonomous interaction is necessary to faster trust and engagement and hence establishing a long-term social relationship between users and robots. NLP is used to extract user’s basic information, hobbies and interests for building a rich user profile. This presents the framework design to enable the development of social robotic applications by cross-disciplinary teams of programmers and interaction designers and advantages and dis-advantages of social robots.

References


Index Terms

Computer Science  
Artificial Intelligence

Keywords

Human robot interaction, social robots, user modelling, user profile, interaction design framework, robot applications.