Abstract

Building effective intelligent tutoring systems critically requires a subject-appropriate corpus of training data. The Wizard-of-Oz approach is a popular method for collecting training data and evaluating prototype systems by letting a human Wizard simulate an intelligent tutoring system and interact with users. However, human Wizards may fail to adequately simulate the proposed system’s behavior, leading to various interaction issues. In order to address these problems, we present a hybrid Wizard-of-Oz technique called Wizard’s Apprentice, which is a novel approach to integrate intelligent software to assist the human Wizard during a Wizard-of-Oz session. In this chapter, we present a prototype implementation of Wizard’s Apprentice and show some results of user testing that could help understanding the strengths and nature of the proposed method.

Keywords: intelligent tutoring system, Wizard-of-Oz, evaluation

References


