Guidance Generation for Facilitating Meta-Cognitive Learning through Presentation Task

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Abstract

It is quite important to build an HCI scheme that can encourage humans’ intellectual activities. Needless to say, learning activity is one of the most intellectual one. In this paper, we’ll discuss computer assisted learning for facilitating meta-cognitive learning as an example of such a promising HCI scheme. Meta-cognition plays an important role in acquiring and transferring expertise. Although we recognize the necessity of building a learning scheme for developing meta-cognitive skills, little knowledge for it has been acquired because it is difficult for learners and instructors to discuss meta-cognitive skills as learning topics: the knowledge for performing meta-cognitive skills is tacit, latent, and context-dependent. Our goal is to build a new learning scheme to support meta-cognitive learning. In this paper, firstly, we describe an overview of our learning support system. Secondly, we illustrate learning strategies in learning software design patterns, and then, propose the function of generating guidance information to facilitate acquiring such meta-cognitive learning strategies.

References