

Development and Evaluation of a Learning Support System for Learning by Following

Akira URAO (Graduate School of Information Science, Nagoya University)

In various fields and for various types of people whose degree of expertise differs, “learning by examples” is a popular way of learning. In this study, we examined the effectiveness of “learning by examples” in a domain which has two features: (1) existence of a physically constructed product, and (2) a long creation process which consists of many steps to achieve solution. Since following the multistep process is difficult, we designed a learning support system that enables learners to be assisted to follow a creation process. We examined its effectiveness and the utility of this system through experiments using the LEGO Mindstorms. The experimental results supported the effectiveness of following a creation process and also indicated that our learning support system successfully assisted learning by following.



Overview of the Learning Support System