

User Modeling Research in Japan

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This abstract overviews user modeling research in Japan. Not only modeling methods including learning algorithms but visualization for adaptive interaction and human modeling for plant operator have been extensively done. Modeling in learning support is also active. The activities are classified into the following five major categories.

1. User modeling for adaptive interface
Command sequence prediction (Motoda 1997)
2. User modeling for information search
Visualization for adaptive interaction(Lokuge 1995)(Sugimoto 1997)(Sugimoto 1998)
3. Learner modeling for individual adaptation
Logic-based induction(Kono 1994)(Ikeda 1994) and opportunistic group formation for CSCL(Ikeda 1997)
4. Human modeling(General)
 - 4.1 Plant operator modeling(Furuta 1993)(Naito 1995) (Ujita 1995) (Yoshimura 1997)
 - 4.2 Speaker modeling in spoken dialog(Yamada 1993)
5. Idea creation support(Hori 1994)(Fujita 1997); Many others in Japanese.
Visualization using a Multi-Dimensional Scaling, called MDS-kNN has been extensively used (Kakusho 1983).

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