Family Aware TV Program and Settings Recommender

Abstract

In this paper we are proposing a design of TV program and settings recommendation engine utilizing contextual parameters like personal, social, temporal, mood and activity. In addition to the contextual parameters the system utilize the explicit or implicit user ratings and watching history to resolve the conflict if any while recommending the services. The System is
implemented exploiting AI techniques (like ontology, fuzzy logic, Bayesian classifier and Rule Base), RDBMS and SQL Query Processing. The motivation behind the proposed work is i) to improve the user's satisfaction level and ii) to improve the social relationship between user and TV. The context aware recommender utilizes social context data as an additional input to the recommendation task alongside information of users and TV programs. We have analyzed the recommendation process and performed a subjective test to show the usefulness of the proposed system for small families.

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**Index Terms**

Computer Science  
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**Key words**

Ubiquitous  
context  
recommendation engine  
conflict

category

context aware tv

family preference

role

age

social status

favorite program

automatic

fuzzy logic

mood

activity