CPTV - Generating Personalized TV Schedules

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Summary

Today's cable and satellite systems provide a multitude of TV viewing choices for a user, making it difficult to select the best program to watch at any one time. Digital video recording and IPTV add even more options, allowing to time- and sometimes place-shift TV watching. CPTV is a system which generates a personalized viewing schedule for a user, integrated with his current calendar tools. The system is based on three main elements:

- a rule based system to express viewing preferences,
- a content-based recommender system to suggest films based on past viewing selections and information extracted from Wikipedia, and
- a constraint-based scheduler which plans and schedules recording and viewing schedules around existing events and availability time periods of a user.

The application thus combines different AI methods in one Web-based application, and is implemented using the constraint logic programming system ECLiPSe.