

## User Modeling from the Perspective of Improvement in Search Results: A Survey of the State of the Art

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**Abstract :** Currently, users expect high quality and personalized information from search results. To satisfy user's needs, personalized approaches to web search have been proposed. These approaches can provide the most appropriate answer for user's needs by using user context and incorporating information about query provided by combining search technologies. To carry out personalized web search, there is a need to make different techniques on whole of user search process. There are the number of possible deployment of personalized approaches such as personalized web search, personalized recommendation, personalized summarization and filtering systems and etc. but the common feature of all approaches in various domains is that user modeling is utilized to provide personalized information from the Web. So the most important work in personalized approaches is user model mining. User modeling applications and technologies can be used in various domains depending on how the user collected information may be extracted. In addition to, the used techniques to create user model is also different in each of these applications. Since in the previous studies, there was not a complete survey in this field, our purpose is to present a survey on applications and techniques of user modeling from the viewpoint of improvement in search results by considering the existing literature and researches.

**Keywords :** filtering systems, personalized web search, user modeling, user search behavior

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