Mining Rules from Context History for Context-Awareness

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How does a system know that "Bob usually goes to a bar after having a meal", "Alice usually takes a break at a cafe after shopping", "When Carol is with his friends, they usually go to a pub",...?

Shinoda et al. (A study of action navigation method by collaborative filtering in ubiquitous environment 2007) propose an action navigation method based on a user's action history data. Their method compares the active user's action history data with that of other users. Then the method extracts action patterns of the users who have similar action history data. Finally, the method provides action navigation for the active user referring to the action patterns.

References