Formal Concept Analysis and Tag Recommendations in Collaborative Tagging Systems

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Robert Jaschke, R Jaschke

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Présentation de l'éditeur

One of the most noticeable innovations that emerged with the advent of the Web 2.0 and the focal point of this publication are collaborative tagging systems. They allow users to annotate arbitrary resources with freely chosen keywords: so called tags. The tags are used for navigation, finding resources and serendipitous browsing and thus provide an immediate benefit for the user. The conceptual structure underlying collaborative tagging systems is called folksonomy. In this book a new data mining task - the mining of all frequent tri-concepts - is presented, together with an efficient algorithm for discovering such implicit shared conceptualizations. Collaborative tagging systems usually include tag recommendation mechanisms easing the process of finding good tags for a resource. Several recommendation algorithms on large-scale real-world datasets are compared: an adaptation of user-based Collaborative Filtering, a graph-based recommender and simpler methods based on tag co-occurences. The social bookmark and publication sharing system BibSonomy, which is currently among the three most popular systems of its kind, has been developed by the research group of the author. This publication introduces BibSonomy as an exemplary collaborative tagging system and gives an overview of its architecture and some of its features.IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in:-Biomedicine

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