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- ▶ **Mining Semantically Indexed Documents for Intelligent User Profiling**  
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- ▶ **Topic-Identifikation**  
Formalisierung, Analyse und neue Verfahren  
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- ▶ **Data Mining for Community Dynamics**  
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- ▶ **The Image of Germany in the World**  
An Email and Web Mining Approach  
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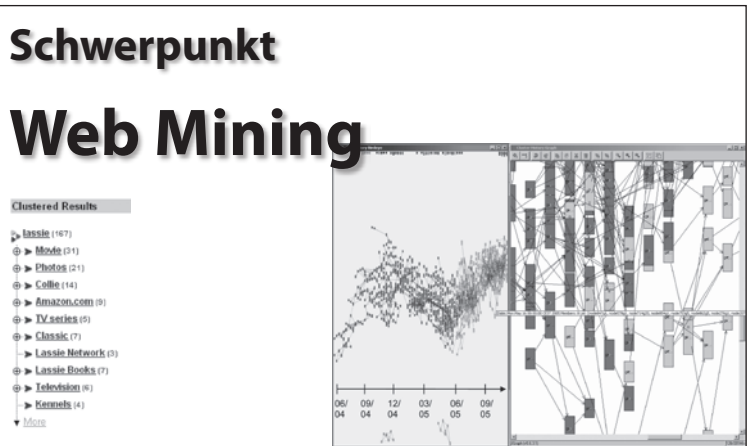
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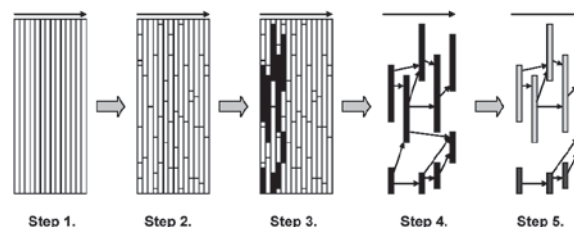
**Seite 9: Mining Semantically Indexed Documents for Intelligent User Profiling**

Typically, personalized information recommendation services automatically infer a user profile, a structured model of the user interests, from documents the user already deemed as relevant. Traditional keyword-based approaches are unable to capture the semantics of the user interests. This work proposes a strategy consisting of two steps. The first one is a semantic indexing procedure based on a word sense disambiguation strategy which exploits the WordNet lexical database to select, among all the possible meanings (senses) of a polysemous word, the correct one. In the second step, semantically indexed documents are mined by a naive Bayes learning algorithm that infer semantic, sense-based user profiles.

Id	Genre	Genre	n. ratings	% POS	% NEG
1		Action	4,474	72	28
2		Animation	1,103	57	43
3		Art_Foreign	4,246	76	24
4		Classic	5,026	92	8
5		Comedy	4,714	63	37
6		Drama	4,880	76	24
7		Family	3,808	64	36
8		Horror	3,631	60	40
9		Romance	3,707	73	27
10		Thriller	3,709	72	28
			39,298	72	28

**Seite 23: Data Mining for Community Dynamics**

Online platforms are virtual places where people interact for different purposes, thus forming online communities. So far several mining methods have been developed to detect these community structures as densely connected subgraphs in networks. The evolution of these networks is typically analyzed by observing changes in the interaction behavior of single members only. However, we observe that communities are highly dynamic social networks, whose members change over time. People leave gradually while new ones join but the community is perceived as still active. We therefore consider methods for modeling and discovering evolving communities and present our approach CoDyM for the analysis of community dynamics. Furthermore, we report on our first series of experiments on real data from an online community.



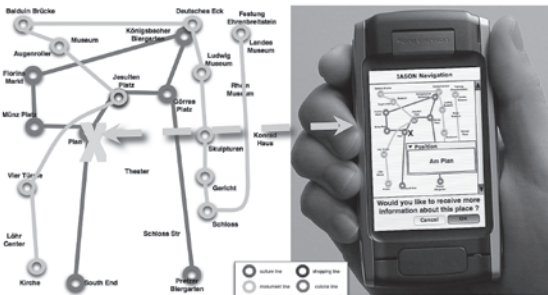
**Seite 57: Kontext-adaptive Fahrerinformationssysteme am Beispiel eines Navigationssystems**

Moderne Fahrerinformationssysteme bieten dem Fahrer eine Fülle von Informationen, die nur zum Teil für die primäre Aufgabe des Fahrers – der Fahrzeugführung – benötigt werden. Viele Fahrerinformationssysteme passen sich den aktuellen Bedürfnissen und Zielen des Fahrers nur bedingt an und erfordern umständliche Bedienabläufe, um eine zufrieden stellende Information des Fahrers zu erzielen. In diesem Artikel beschreiben wir eine allgemeine Architektur zur Realisierung kontext-adaptiver Anwendungen im Fahrzeug und einen Ansatz zur situativen Anpassung der Informationsdarbietung auf der Basis von Bayes'schen Netzen. Wir illustrieren diesen Ansatz anhand einer kontextadaptiven Auswahl von „Points of Interests“ in einem Navigationssystem.



**Seite 64: Location based Information systems**

In this paper we describe a series of projects on location based and personalised information systems. We start with a basic research project and we show how we came with the help of two other more application-oriented projects to a product. This is developed by a consortium of enterprises and it already is in use in the city of Koblenz.



**Seite 46: KI 2007 – 30th Annual German Conference on Artificial Intelligence**

Invited Talks: Sahin Albayrak, TU Berlin; Wolfgang Bibel, TU Darmstadt; Martin Buss, TU München; Thomas Christaller, Fraunhofer IAIS, Sankt Augustin; Yuval Elovici, Ben Gurion University of the Negev, Beer-Sheva, Israel; Dieter Fox, U. of Washington, Seattle, USA.  
Tutorials: Gennady Andrienko, Natalia Andrienko, Carmel Domshlak.



Sowie das Technical Program und 10 Workshops. Das Programm der 30. Jahrestagung Künstliche Intelligenz (KI 2007) in Osnabrück vom 10.–13.9.2007 umfasst eine interessante Vielfalt. Informationen zur Tagung KI 2007 finden Sie unter



www.ki2007.uos.de

**Sonderteil KI 2007**

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Artikel zum Schwerpunkt sind mit einem ► gekennzeichnet.