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Einladung

Informatik-Oberseminar

Zeit: Donnerstag, 22. März 2012, 14:00 Uhr

Ort: Raum 5053.2, Ahornstr. 55

Referent: Dipl.-Inform. Yiwei Cao
Lehrstuhl Informatik 5, RWTH Aachen

Thema: Uncertainty Handling in Mobile Community Information Systems

Abstract:

In mobile community information systems, imprecise or even false GPS information, users' erroneous semantic description about a multimedia artifact, or different interpretations of multimedia content in different user communities lead to new kinds of uncertainty, not addressed by traditional database research e.g. on probabilistic theories, data lineage, and fuzzy logic.

This thesis develops a model and support environment for dealing with this new “uncertainty 2.0” in context, multimedia semantics, and community perspectives. First, interactions and conversions between multimedia semantics and multimedia context are crucial for mobile and Web data management in mobile community information systems. Second, development of the concept “community of practice” has great potentials to reduce uncertainty 2.0 problems. As the main “practices”, improvements in multimedia tagging and multimedia storytelling are proposed, elaborated and validated. The resulting prototype environment “Virtual Campfire” enables amateurs to develop their knowledge and experiences in communities of practice. Uncertainty is reduced via this cultivation of expertise. To validate the approach, several substantial mobile community information system applications have been realized in the domains of cultural heritage management and technology enhanced learning.

Es laden ein: Die Dozenten der Informatik