

Abstract

With the currently growing interest in online social network services, social relationships in the real world are emerging in the Web and a user itself is gradually coming to play a central role in the Web contents. The emergence of user information from the real world into the Web has a great impact on information system.

We propose real-world oriented information sharing system using social network. The basic idea is to give access control to information contents based on social relationships between online users. The idea comes from the analogy of information sharing in the real world. The system is composed of three main functions: Extracting tool of social network, Editor for semi-automatic mapping between social relationships to access control information, and Contents browser. Social relationships are modeled with various parameters such as centrality, topology, relationship property by analyzing the extracted social network. Compared with conventional systems, our system provides more flexible and real-world oriented information sharing.