Calls for Papers

Trust and Reputation Management (Sept/Oct 2010)

Final submissions due 4 January 2010

Please email the guest editors a brief description of the article you plan to submit by 15 December 2009
Guest Editors: Ling Liu (lingliu@cc.gatech.edu) and Weisong Shi (weisong@cs.wayne.edu)

Internet applications have evolved from centralized computing platforms to distributed collaborative network computing systems. Recent work suggests that reputation-based trust systems are an effective way for collaborative computing systems and applications to identify and avoid malicious nodes, minimize the threat, and protect the system from possible misuses and abuses in decentralized network computing systems and applications. With the increasing importance of reputation-based trust systems for Internet-computing applications, we're faced with trust management issues from several perspectives. First, we must establish attack-resilient reputation trust among nodes that don't have prior knowledge about one another. Second, we must utilize the historical data in reputation management to deal with sparse and malicious manipulation of reputation trust. Finally, we must exploit reputation-based trust inference for building more reliable, large-scale Internet applications.

This special issue of *IC* seeks original contributions from different domains that have faced trust and reputation systems for Internet-computing applications. Appropriate topics include

- different trust inference models;
- reputation knowledge discovery;
- reputation knowledge modeling and engineering;
- trust and reputation systems in online communities;
- trust and reputation management in Internet services and applications; and
- trust- and reputation-based data-intensive systems and applications.

Overcoming Information Overload (Nov/Dec 2010)

Final submissions due 1 March 2010

Please email the guest editors a brief description of the article you plan to submit by 15 February 2010
Guest Editors: Francesco Guerra (francesco.guerra@unimore.it), Sonia Bergamaschi (sonia.bergamaschi@unimore.it), and Barry Leiba (barryleiba@computer.org)

Internet users today are inundated with information. We get masses of email; we're interrupted by instant messages; and we must remember to check social networking sites, news sources, and company Web sites daily — or even many times each day. Web searches produce more hits than we can sift through, as we try to find what we're really looking for.

Managing this much information is a very complex task. Syndication technology — such as RSS and Atom — and feed readers might provide some support, but issues related to the analysis, classification, evolution, retrieval, and other information are open problems. Information overload, therefore, represents a big challenge for software applications seeking to help users by collecting, grouping, classifying, indexing, selecting, searching, ranking, and filtering pieces of information.

This special issue seeks original articles examining the state of the art, open problems, research results, tool evaluation, and future research directions in overcoming information overload. Appropriate topics include

- building and managing information repositories;
- extracting, matching, classifying, clustering, measuring similarity, analyzing natural language, and indexing applied to information;
- retrieving, aggregating, and visualizing information;
- personalizing, ranking, collaborative filtering, and keyword-based search engines; and
- syndication technology and feed readers.