

Calls for Papers

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Information Quality in the Internet Era (July/August 2010)

Final submission due 15 November 2009

Please email the guest editors a brief description of the article you plan to submit by 1 November 2009

Guest Editors: Carlo Batini (batini@disco.unimib.it), Elisa Bertino (bertino@cerias.purdue.edu), Monica Scannapieco (scannapi@istat.it), and Andrea Maurino (maurino@disco.unimib.it)

In the Internet era, information is accessible and published by everyone in a free and uncontrolled way. New technologies such as mashups and service-oriented computing let users search data and use it to provide new services. New data types, such as geographical and multimedia video, are becoming common in the day-by-day user experience. This incredible amount of available data introduces new, challenging data quality problems. Low information quality is common in government, commercial, and industrial Web applications (including Web 2.0 tools). We can no longer ignore alarming situations involving various information quality problems (such as accessibility or data preservation), and new theoretical as well as pragmatic approaches are needed. As a consequence, information quality on the Web is becoming one of the most interesting topics in academic and industrial communities.

This special issue of *IC* seeks original research contributions, industrial experience, and case studies relating to all aspects of information quality in the Internet era. Appropriate topics include

- information integration and fusion;
- information quality in multimedia, semistructured, and unstructured data;
- information quality in Web applications (including Web 2.0 tools);
- information quality in sensor networks;
- information quality assessment; and
- information quality methodologies.

Trust and Reputation Management (September/October 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.

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on both technical merit and relevance to *IC*'s international readership — primarily system and software design engineers. We do not accept white papers, and we discourage strictly theoretical or mathematical papers.

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All submissions must be original manuscripts of fewer than 5,000 words, focused on Internet technologies and implementations. All manuscripts are subject to peer review