Call for Papers: Cloud Data Management
Special Issue of
IEEE Transactions on Knowledge and Data Engineering

Cloud computing is a big step towards realizing McCarthy’s dream that all aspects of computation be organized as a public utility service. It embraces concepts such as software as a service and platform as a service, including services for workflow facilities, application design and development, deployment and hosting services, data integration, and management of software. The cloud platform only increases in importance as our industry makes the phase change from in-house data management to cloud-hosted data management to improve efficiency and focus on core businesses. However, like any new technology, there are formidable problems, from performance issues to security and privacy, from metadata management to high availability. These issues make great research areas—importance and challenge. Providing solutions will help extend the dream of “information at your fingertips” to “available wherever you happen to be”. This special issue of TKDE on “cloud data management” calls for original articles that propose solutions for this exciting new computing paradigm.

Topics
Original contributions, not currently under review or accepted by another journal, are solicited in relevant areas including (but not limited to) the following:

- Cloud infrastructure for data management;
- Cloud infrastructure for multi-tenancy databases;
- Performance issues and benchmarking;
- Query processing and optimization;
- Indexing;
- Massively parallel execution;
- Security and privacy;
- Transaction management and recovery;
- Services and discovery;
- Cross-platform interoperability;
- Data-intensive computing and application;

Submission Guidelines
Prospective authors should prepare manuscripts according to the Information for Authors as published in recent issues of the journal or at http://www.computer.org/tkde/. Mandatory over-length page charges will apply. Manuscripts should be submitted through the online IEEE manuscript submission system at https://mc.manuscriptcentral.com/cs-ieee.

Tentative Schedule
Deadline for paper submission: March 10, 2010
Completion of first review: June 11, 2010
Minor/Major revision due: August 13, 2010
Final decision notification: October 1, 2010
Publication materials due: October 15, 2010
Publication date (tentative): March 2011

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