Editor’s Notes

Welcome to the September 2009 issue of SIGMOD Record. We begin the issue with a welcome article from the new Chair of SIGMOD, Yannis Ioannidis.

The first regular article of this issue, by Ooi, Tan, and Tung, is looking (from a database perspective) into the topic of cyber-physical systems (or co-space) and the challenges these systems bring. The second regular article, by Lagogiannis, Lorentzos, Sioutas, and Theodoridis, is looking into the problem of spatio-temporal queries, and in particular proposes an efficient indexing scheme.

The Database Principles Column (edited by Leonid Libkin) features one article, by Arenas, Perez, Reutter, and Riveros. The article is on schema mappings, and in particular on two of the most fundamental operators: composition and inversion.

We continue with an article in the Surveys Column (edited by Cesar Galindo-Legaria), by Shmueli, Vaisenberg, Elovici, and Glezer, on database encryption. The authors present a nice overview of the main challenges and the primary design considerations for database encryption in contemporary systems.

We continue with an article in the Research Centers Column (edited by Ugur Cetintemel) about the spatio-temporal database research group at the University of Melbourne.

Next is the Open Forum Column, which is meant to provide a forum for members of the broader data management community to present (meta-)ideas about non-technical issues and challenges of interest to the entire community. In this issue, we present a report on the Repeatability and Workability Evaluation of SIGMOD 2009. Please note that this process will repeat again for SIGMOD 2010; the details are included in this issue (page 56).

We continue with two articles in the Reports Column (edited by Brian Cooper). First is the Report of the 2008 Logic in Database workshop (LID 2008), written by Cali, Martinenghi, and Lakshmanan. Second is the Report on the SIGMOD 2009 Best Demonstration Competition, written by Bjorn Thor Jonsson.

Next, we have the TODS Column, where the Editor-in-Chief of TODS, Meral Ozsoyoglu, gives us a brief look behind the scenes and provides updates on new initiatives.

We close the issue with multiple Announcements and Calls for Papers/Submissions:

- Call for Nominations - SIGMOD Jim Gray Doctoral Dissertation Award (due: Dec 15)
- Second Annual SIGMOD Programming Contest: Distributed Query Engine
- SIGMOD Conference Experimental Repeatability Requirements
- Calls for Papers - First ACM Symposium on Cloud Computing (SoCC 2010)

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