 SIGMOD Record

SIGMOD Record is a quarterly publication of the Special Interest Group on Management of Data (SIGMOD) of the Association for Computing Machinery (ACM). SIGMOD is dedicated to the study, development, and application of database and information technology. SIGMOD Record Web Edition is also freely available online at http://sigmod.org/sigmodrecord/.

SIGMOD Record solicits contributions of articles, reports, and proposals for special sections. Conference announcements and calls for papers can be published if relevant to the interests of the SIGMOD community and, in most cases, are limited to one page. The SIGMOD Record editorial policy can be found online at: http://sigmod.org/sigmodrecord/sigmod-record-editorial-policy/

Papers should be submitted electronically in PDF format through the SIGMOD RECord Electronic Submission Submission System (RECESS) at http://sigmod.hosting.acm.org/record/. Detailed information for authors is available at: http://sigmod.org/sigmodrecord/authors/.

By submitting your article for distribution in this Special Interest Group publication, you hereby grant to ACM the following non-exclusive, perpetual, worldwide rights:

• to publish in print on condition of acceptance by the editor
• to digitize and post your article in the electronic version of this publication
• to include the article in the ACM Digital Library and in any Digital Library related services
• to allow users to make a personal copy of the article for noncommercial, educational or research purposes

However, as a contributing author, you retain copyright to your article and ACM will refer requests for republication directly to you. Therefore, ACM is asking all newsletter authors to include their contact information in their submissions. Opinions expressed in articles and letters are those of the author(s) and do not necessarily express the opinions of the ACM or SIGMOD. Author(s) should be contacted for reprint authorization.

**SIGMOD Record Editor-in-Chief:**
Yanlei Diao, University of Massachusetts Amherst, <yanlei AT cs.umass.edu>

**Associate Editors:**

Vanessa Braganholo (Distinguished Profiles), Universidade Federal Fluminense, <vanessa AT icc.uff.br>

Marco Brambilla (Systems and Prototypes), Politecnico di Milano, <mbrambil AT elet.polimi.it>

Chee Yong Chan (Research Articles), National University of Singapore, <chancy AT comp.nus.edu.sg>

Rada Chirkova (Research Articles), North Carolina State University, <rychirko AT ncsu.edu>

Zackary Ives (Research Highlights), University of Pennsylvania, <zives@cis.upenn.edu>

Anastasios Kementsietsidis (Industry Perspectives, Reports), Google Research, <akement AT google.com>