



The 29th International Conference on Scientific and Statistical Database Management
June 27-29, 2017 (Submissions due: February 3rd, 2017)
Chicago, USA
<http://ssdbm.org/>

The recent success of “Big Data” is in part the results of the decades of research work on large scientific and statistical data. Indeed, scientific data sets such as those from large physics experiments and statistical data sets such as those from national censuses are the original forms of “Big Data.” The tools and techniques developed for these forms of “Big Data” have led to the discovery of the Higgs Boson (aka, the god particle) and the emergence of behavioral economics. As forms and varieties of scientific and statistical data evolve, work on organizing, analyzing, publishing and preserving the data sets and their derived artifacts is thriving. In particular, advances in computer architectures and High Performance Computing (HPC) techniques are opening new opportunities to accelerate the analysis of even the largest data sets. The SSDBM international conference brings together scientific domain experts, database researchers, practitioners, and system developers for the presentation and exchange of current research results on concepts, tools, and techniques for scientific and statistical data-based applications. This conference series has a long history of publishing state-of-art work on large scientific and socioeconomic data. The conference program typically consists of a single track to facilitate discussion, and contains presentations of varying lengths, such as invited talks, panel sessions, and demonstrations of research prototypes and industrial systems.

The 29th SSDBM (aka SSDBM 2017) invites submissions of original research contributions on scalable algorithms and practical system designs involving all aspects of large scientific data and statistical data. SSDBM 2017 will have a focus on high-performance predictive analytics tools and techniques, with a special emphasis on streaming data from multiple sources. We also welcome short papers (4-6 pages) describing work in progress/vision, and demo papers (note that the deadline for demo papers is March 1, 2017).

Topics of Interest

Topics of particular interest include, but are not limited to, the following, as they relate to scientific and statistical data management:

- Stream data management, e.g., storage, organization, compression, indexing and querying
- Stream data analysis, e.g., summarization, statistical analysis, pattern matching, pattern discovery, learning, and prediction
- Modeling and representation of streaming data
- Case studies, particularly those at scale-of-consequence for energy, economy, and health
- Integration and exchange of data, including the federation and management of institutional data repositories
- Design, implementation, optimization of scientific workflows
- System architectures for scientific and statistical data management and analysis
- Querying of scientific data, including spatial, temporal, and streaming data
- Mining and analysis of large-scale datasets, especially on new and emerging hardware and environments
- Techniques for comparing simulation and experimental data
- Visualization and exploration of large datasets
- Information retrieval and text mining
- Knowledge discovery, clustering, graph analysis



Conference Web site <<http://ssdbm2017.eecs.northwestern.edu/>>

Submission Web Site <<https://easychair.org/conferences/?conf=ssdbm2017>>

Important dates:

Submissions due:

February 3rd, 2017

Notifications:

April 18, 2017

Conference dates:

June 27-29, 2017

Conference dinner:

June 28, 2017

Organizers

General Chair:

Alok Choudhary

Program Chair:

John Wu

Local Organizing:

Goce Trajcevski

Logistics:

Arie Shoshani

Proceedings:

Bin Dong

Demos:

Florin Rusu

Venue

The Gleacher Center

The University Chicago Booth

School of Business

450 North Cityfront Plaza Drive

Chicago, Illinois 60611

Program Committee Members	
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Varun Chandola	State University of New York at Buffalo
William Dai	Los Alamos National Laboratory
Yuhui Deng	Jinan Unviersity
Laszlo Dobos	Eotvos Lorand University
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Zhiling Lan	Illinois Institute of Technology
Wei-Keng Liao	Northwestern University
Qing Liu	New Jersey Institute of Technology
Jialin Liu	Lawrence Berkeley National Lab
Chuan-Ming Liu	National Taipei University of Technology
Mengchi Liu	Carleton University
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Ethan Miller	University of California Santa Cruz
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Bongki Moon	Seoul National University
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Torben Bach Pedersen	Aalborg University
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