Special Issue Proposal on

*Principled Approaches to Big Data Warehouses*

to “Information Systems”, Elsevier

by **Alfredo Cuzzocrea, PhD**



*Clouds* and *Data Centers* that support *Big Data applications* are all around us. To some extent, they have been slapped together, offering imperfect recoverability and consistency for the sake of high performance. It is time to rethink the field to support high performance for machine learning and business intelligence queries, streaming updates, consistency, recoverability, online scalability, and security.

With these goals in mind, the proposed IS special issue “*Principled Approaches to Big Data Warehouses*” invites papers for the proposed IS special issue under the scope of Big Data Warehouses on topics that include, but are not limited to, the following :.

* architectural paradigms
* scalable computing methodologies;
* data integration paradigms;
* consistency management, possibly application-dependent;
* support for machine learning and business intelligence
* replica management methods;
* indexing methodologies;
* advanced big data processing methods;
* cloud approaches;
* integration of big data warehouses and NoSQL databases;
* data exchange methodologies;
* spatio-temporal data management;
* probabilistic/uncertain data management;
* streaming;
* security and privacy-preservation;

**Tentative Schedule**

Submission of full papers: 30 September 2017

First decision notification: 30 November 2017

Submission revised papers: 15 December 2017

Final decision notification: 15 January 2018

Final materials to Elsevier: 30 January 2018

Estimated publication date: 2018

**Submission Instructions**

All manuscripts will be rigorously refereed by at least three reviewers among people of widely-recognized expertise. Submission of a manuscript to this special issue implies that no similar paper is already accepted or will be submitted to any other conference or journal.

Author guidelines for preparation of manuscript can be found at: <https://www.elsevier.com/journals/information-systems/0306-4379/guide-for-authors>

All manuscripts and any supplementary material should be submitted through Elsevier EVISE. Authors must select “**Special Issue: Big DW**” when they reach the “Article Type” step in the submission process. The EVISE Web site for “Information Systems” is available at: <http://www.evise.com/evise/faces/pages/navigation/NavController.jspx?JRNL_ACR=IS>