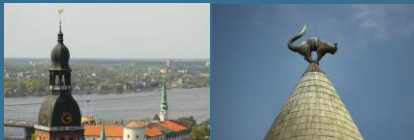# 12th INTERNATIONAL BALTIC CONFERENCE ON DATABASES AND INFORMATION SYSTEM

## 4-6 July, 2016
## Riga, LATVIA



DB&IS 2016 will take place in Riga whose picturesque medieval Old City is known around the world for its well-preserved completeness and authentic Hanseatic architecture. Enchanting atmosphere, rich cultural scene, beautiful surroundings, cutting-edge restaurants, cafés and clubs – there is certainly something for everyone in Riga.

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More information: **www.dbis.lu.lv**
e-mail: dbis2016@lu.lv

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# DB&IS 2016

## CALL FOR PAPERS

**Included in IEEE list of conferences.** Conference proceedings will be published by **Springer** in the series **Communications in Computer and Information Science (CCIS)** indexed by **SCOPUS** and submitted for indexation in **Thomson Reuters Conference Proceedings Citation Index.**

Post-conference proceedings of selected and extended papers will be published by **IOS Press** in the series **Frontiers in Artificial Intelligence and Applications** as Open Access Ebook, indexed by **SCOPUS** and **Web of Science**. The other extended papers will be published in **Baltic Journal of Modern Computing**, indexed by **Web of Science.**

Data management is fundamental for most information systems (IS) and especially for those based on the web. As the volume of data created globally is expected to grow exponentially in forthcoming years, management of big data gains importance in database research and development. Another new research area of great interest is the fusion or linking of structured and unstructured data in IS, tightly related to semantic technologies. In addition, explosion of data usage scenarios, and shifts in computing hardware and platforms highly influence data management and development of modern information systems.

The Baltic conference on databases and IS is an international forum among researchers and developers of databases and IS. The purpose of this conference series is to bring together researchers, practitioners and PhD students in the fields of advanced database and IS research, and provide an environment to exchange research findings and ideas on the matters, where development of reliable and sustainable systems, with data in the central role, has become crucial in modern diverse IS engineering.

The conference will feature original research and application papers on the theory, design and implementation of today's IS on a set of themes and issues. This conference is continuing a series of successful biennial Baltic conferences on databases and IS, which have been held in Trakai (1994), Tallinn (1996, 2002, 2008, 2014), Riga (1998, 2004,2010), and Vilnius (2000, 2006, 2012).

## TOPICS

Papers on the following main research and application topics, but not limited to, are welcome to be submitted to Baltic DB&IS 2016:

- Big Data Applications and Cloud Computing
- Big Data Integrity and Privacy
- Big Data Processing and Analysis
- Big Data And Semantics
- Business Process Modeling
- Data and Knowledge Management
- Data Integration and Security
- Data Mining and Knowledge Discovery
- Data Services and Cloud Computing
- Data Warehousing
- Distributed Data Integration and Cloud Computing
- Domain-oriented IS ( e.g. GIS, environmental IS, governmental IS, etc)
- E-services, e-government, e-business, e-learning, e-health
- Human Computer Interaction (wrt Web Information Systems, etc)
- Information Systems and AI Technologies
- IS Engineering and Integration
- Integrated and Interoperable Database Technologies

- IS, Mobile Computing, and Agents
- Knowledge Engineering and Databases
- Linguistic Components of IS
- Linked Data and Linked Open Data
- Linked Data Integration, Quering, Reasoning, and Schema Learning
- Ontology Applications
- Ontology Engineering (e.g. modularisation, design patterns, ontology matching, etc.)
- Privacy, Trust and Security in IS
- Requirements Engineering for IS
- Semantic Annotation and Semantic Interoperability
- Semantic Technologies for IS
- Semantic-driven IS Design Methodologies
- Service Oriented Information Systems
- Social Web Mining* Stream Data Processing
- Web Information Systems, Evaluation and Personalisation
- Web-scale Data Management (indexing, crawling, etc.)

**Authors** are invited to submit original unpublished research papers and application experience papers up to 15 pages.
**PhD students** are invited to submit papers to the Doctoral Consortium.
For additional information on paper submission please refer to conference website www.dbis.lu.lv .

## IMPORTANT DATES

Abstract submission deadline: **24 Jan 2016**
Full Paper Submission deadline: **31 Jan 2016**
Final submission deadline: **01 Apr 2016**
Notification of acceptance date: **15 Mar 2016**