

Modelling and Reasoning for Business Intelligence

Preface to MORE-BI 2016

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The series of International Workshops on Modeling and Reasoning for Business Intelligence (MORE-BI) aims at advancing the engineering of Business Intelligence (BI) systems. The second edition of the workshop was collocated with the 35th International Conference on Conceptual Modeling (ER 2016), held in Gifu, Japon, in November 2016.

BI systems gather, store, and process data to turn it into information relevant for decision-making. Successful engineering, use, and evolution of BI systems require a deep understanding of the requirements of decision-making processes in organizations, of the kinds of information used and produced in these processes, of the ways in which information can be obtained through acquisition and reasoning on data, of the transformations and analyses of that information, of how the necessary data can be acquired, stored, and cleaned, of how its quality can be improved, and of how heterogeneous data can be used together. The fourth edition of MORE-BI focused on three topics: the search of patterns in sequential data, the design of spatial OLAP applications and the use of data mining techniques for security purposes.

We hope that the workshop has stimulated discussions and contributed to the research on the concepts and relations relevant for the various steps in the engineering of BI systems. We thank all authors who have submitted their research to MORE-BI 2016. We are grateful to our colleagues in the steering committee for helping us define the topics and scope of the workshop, our colleagues in the program committee for the time invested in carefully reviewing the submissions under a very tight schedule, the participants who have helped make this a relevant event, and the local organizers and workshop chairs of ER 2016. We hope that you find the workshop program and presentations of interest to research and practice of business intelligence, and that the workshop has allowed you to meet colleagues and practitioners focusing on modeling and reasoning for business intelligence. We look forward to receive your submissions and meet you at the next edition of the workshop.

Accepted Papers

- Witold Andrzejewski, Bartosz Bebel, Szymon Klosowski, Bartosz Lukaszewski and Gastn Bakkalian. *Searching for Patterns in Sequential Data: Functionality and Performance Assessment of Commercial and Open-source Systems*
- Tatiana Penkova. *Analysis of Natural and Technogenic Safety of the Krasnoyarsk Region Based on Data Mining Techniques*
- Sandro Bimonte, Ali Hassan and Philippe Beaune. *From design to visualization of Spatial OLAP applications: A new prototyping methodology and tool*

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