

Lecture Notes in Business Information Processing

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Enterprise, Business-Process and Information Systems Modeling

10th International Workshop, BPMDS 2009
and 14th International Conference, EMMSAD 2009
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Proceedings

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Preface

This book contains the proceedings of two long-running workshops held in connection to the CAiSE conferences relating to the areas of enterprise, business-process, and information systems modeling

- The 10th International Workshop on Business Process Modeling, Development and Support (BPMDS 2009)
- The 14th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2009)

BPMDS 2009

BPMDS 2009 was the tenth in a series of workshops that have successfully served as a forum for raising and discussing new ideas in the area of business process development and support.

The topics addressed by the BPMDS workshops are focused on IT support for business processes. This is one of the keystones of information systems theory. We strongly believe that any major conference in the area of information systems needs to address such topics independently of the current fashion. The continued interest in these topics on behalf of the IS community is reflected by the success of the last BPMDS workshops and the recent emergence of new conferences devoted to the theme.

During the previous BPMDS workshops, various issues were discussed that could be related to different but isolated phases in the life cycle of a business process. In the previous edition we arrived to a focus on the interactions between several phases of the business process life cycle.

In BPMDS 2009 the focus was on the drivers that motivate and initiate business process design and evolution. We distinguished three groups of drivers, which can exist separately or in any combination in real-life situations. These include (a) business-related drivers, where processes are changed to meet business objectives and goals, (b) technological drivers, where change is motivated or enabled by the availability, the performance or the perceived quality of IT solutions, and (c) drivers that stem from compliance requirements, facing standards and interoperability challenges.

The workshop discussions mainly dealt with the following related questions:

- What are the drivers or factors that initiate/demand change in business processes?
- How to cope with/introduce changes required by different drivers
- How to discover that it is time for a change
- How to discover that change has already happened (uncontrollable changes), and there is a need to explicitly change process definitions/operational instructions

The 17 papers accepted for BPMDS 2009 were selected from among 32 papers submitted from 14 countries (Australia, Brazil, France, Germany, Israel, Italy, Japan, Latvia, The Netherlands, South Africa, Spain, Switzerland, Tunisia, United Kingdom). They cover a wide spectrum of issues related to the drivers of business process change and how these affect the change process and are reflected in it. They are organized under the following section headings:

- Business and goal-related drivers
- Model-driven process change
- Technological drivers and IT services
- Technological drivers and process mining
- Compliance and awareness

We wish to thank all the people who submitted papers to the workshop for having shared their work with us, as well as the members of the BPMDS 2009 Program Committee and the workshop organizers of CAiSE 2009 for their help with the organization of the workshop. The conference was supported by IFIP WG 8.1

March 2009

Selmin Nurcan
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EMMSAD 2009

The field of information systems analysis and design includes numerous information modeling methods and notations (e.g., ER, ORM, UML, DFDs, BPMN), that are typically evolving. Even with some attempts to standardize (e.g., UML for object-oriented design), new modeling methods are constantly being introduced, many of which differ only marginally from existing approaches. These ongoing changes significantly impact the way information systems are being analyzed and designed in practice. EMMSAD focuses on exploring, evaluating, and enhancing current information modeling methods and methodologies. Although the need for such studies is well recognized, there is a paucity of such research in the literature.

The objective of EMMSAD 2009 was to provide a forum for researchers and practitioners interested in modeling methods in systems analysis and design to meet and exchange research ideas and results. It also provided the participants with an opportunity to present their research papers and experience reports and to take part in open discussions.

EMMSAD 2009 was the 14th in a very successful series of events, previously held in Heraklion, Barcelona, Pisa, Heidelberg, Stockholm, Interlaken, Toronto, Velden, Riga, Porto, Luxembourg, Trondheim, and Montpellier. This

year we had 36 papers submitted from 18 countries (Argentina, Austria, Brazil, Canada, China, France, Germany, Israel, Italy, Latvia, Luxembourg, The Netherlands, Norway, South Africa, Spain, Sweden, Switzerland, United Kingdom). After an extensive review process by a distinguished international Program Committee, with each paper receiving at least three reviews, we accepted the 16 papers that appear in these proceedings. Congratulations to the successful authors!

Apart from the contribution of the authors, the quality of EMMSAD 2009 depends in no small way on the generous contribution of time and effort by the Program Committee and the additional reviewers. Their work is greatly appreciated. We also express our sincere thanks to the CAiSE Organizing Committee, especially the CAiSE Workshop and Tutorial chairs Paul Johannesson (KTH, Stockholm, Sweden) and Eric Dubois (CRP Henri Tudor, Luxembourg).

Continuing with our very successful collaboration with IFIP WG 8.1 (<http://home.dei.polimi.it/pernici/ifip81/>) that started in 1997, this year's event was again a joint activity of CAiSE and WG 8.1. The European INTEROP Network of Excellence (<http://www.interop-vlab.eu/>) has also sponsored this workshop since 2005, as has AIS-SIGSAND (<http://nfp.cba.utulsa.edu/baja.ja/SIGSAND/>).

For more information on EMMSAD, see our website www.emmsad.org

March 2009

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