2025/11/01 08:26 1/3 Bimlog

Bimloq

Business Models Optimization for Quality (BIMLOQ)

• MNiSW Research Grant no. N516 422338

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• Timeline: 2010-05→2012-12

• Duration: 32 months

Motivation

The main aim of Business Models Optimization for Quality (BIMLOQ) is to build a declarative model for business processes, including business rules specification, with an emphasis on analysis and optimization of those processes.

- **Semantic:** lack of a common ontology, lack of unified semantics, difficult unambiguous logical representation.
- **Functional:** aims and tasks in the business logic layer cannot be mapped to logical quality assessment methods.
- **Technical:** technologies used in the visual design layer are incompatible with the declarative logical representation.

Intended results

- Conceptual: declarative model for logical business process representation and analysis.
- Practical:
 - new tools for analysis and optimisation of specification quality,
 - integration of visual BPMN tools and logical knowledge processing.
- **Evaluative:** modeling and analysis of real-life application use cases.

Expected benefits:

- Real-time quality assessment during development.
- Maintainability assurance.
- Formal analysis of business software quality.
- High adaptability in dynamic environments.

News

• **14.04.2011** The BIMLOQ Project Overview presentation during the Explicite Seminar (more on the Explicite website) presentation.pdf

Last update: 2013/03/01 13:32

Publications

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Tools

0.1 BPMN to XTT Translator

0.2 Oryx-HQEd

0.3 Loki

Description

Loki is a semantic wiki that uses strong logic-based knowledge representation. It implements semantic annotation mechanism as well as enable intelligent aggregation and querying. It serves as a flexible platform for collaborative knowledge engineering.

Papers

- JUCS paper: Collective Knowledge Engineering with Semantic Wikis (2010)
- TCCI III LNCS paper: Loki Semantic Wiki with Logical Knowledge Representation (2011,

0.4 HeaRT in Wiki

0.5 Pellet-HeaRT

Description

PelletHeaRT is a prototype of a hybrid rule reasoner for ontologies. It assumes an integration of classic forward chaining rule reasoning implemented by HeaRT with the Pellet resoner. The project and implementation is based on a proposal of integrating *Attribute Logic with Set Values over Finite Domains (ALSV(FD))* and *Description Logics (DL)*.

Papers

- LNCS/LNAI 6359/2010 Paper: Pellet-HeaRT Proposal of an Architecture for Ontology Systems with Rules (2010)
- TCCI II, LNCS/LNAI 6450/2010 Paper: Integration Proposal for Description Logic and Attributive Logic – Towards Semantic Web Rules (2010)

https://geist.re/ Printed on 2025/11/01 08:26

2025/11/01 08:26 3/3 Bimloq

0.6 SEWiki

Cases

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Go back to → projects

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Last update: 2013/03/01 13:32

