

Semantics for Business Process Management

Budva, 11 June 2006

Welcome

- In the name of the organisers
 - ◆ Knut Hinkelmann
 - ◆ Dimitris Karagiannis
 - ◆ Nenad Stojanovic
 - ◆ Gerd Wagner



Objective

- "Kick-off Event"
- Bringing together researchers from different communities
 - ◆ Semantic Web
 - ◆ Business Process Management
- Outcome
 - ◆ common vision?
 - ◆ list of main challenges?
 - networking



Motivation

■ Business

- ◆ Increasing demand in flexibility and adaptivity of business processes
- ◆ Advancing business process management towards knowledge-intensive processes
- ◆ Cross-organisational business applications

■ Technology

- ◆ Service oriented architecture
- ◆ Semantic Web Services
- ◆ ...



Semantic Web Technology for Business Process Management – Some Promises

- increase flexibility and dynamics of process enactment, e.g.
 - ◆ adaptive resource allocation,
 - ◆ ad-hoc decisions of process flows,
 - ◆ real-time discovery of business partners and automatic mediation between tools,
 - ◆ personalized and context-aware process models
- support quality and reliability of systems and services, e.g.
 - ◆ formal consistency checks
 - ◆ sophisticated compliance and business policy management
- optimization and analytical opportunities, e.g.,
 - ◆ by usage or process mining

Workshop Preparation

■ Submission

- ◆ 17 submissions
- ◆ 2 reviews per paper

■ Program

- ◆ 9 papers accepted for workshop
- ◆ 2 invited talks



Program Outline

9:00 – 10:45	Session 1
10:45 – 11:00	Coffee Break
11:15 – 12:30	Session 2
12:30 – 14:00	Lunch Break
14:00 – 15:30	Session 3
15:30 – 16:00	Coffee Break
16:00 – 17:00	Session 4
17:00 – 17:30	Final Discussion, Future Steps

Session 1

9:10 - 9:55

Invited Talk

Semantic Services in Business Process Management

Dimitris Karagiannis

9:55 - 10:20

Integrating Semantic Web Services and Business Process Management: A Real Use Case

Christian Drumm, Jens Lemcke, Kioumars Namiri

10:20 - 10:45

m3pl: A Work-FLOWS ontology extension to extract choreography interfaces

Armin Haller, Eyal Oren

Session 2

- 11:15 - 11:35 Automatic User Support for Business Process Modeling
Stefanie Betz, Stefan Klink, Agnes Koschmider, Andreas Oberweis
- 11:35 - 11:55 Towards Business Level Verification of Cross-Organizational Business Processes
Kioumars Namiri, Nenad Stojanovic
- 11:55 - 12:15 Adaptive technologies to address operational complexity in highly configurable value chains
Ray Richardson, Aidan Boran
- 12:15 - 12:30 Semantic Event-driven Process Chains
Oliver Thomas, Michael Fellmann

Session 3

14:00 - 14:45

Invited Talk

Semantics in Business Process Management: The Grand Vision and the Low Hanging Fruits

Martin Hepp

14:45 - 15:05

Expressing Semantic Web Service Behavior using Description Logics

Markus Fronk, Jens Lemcke

15:05 - 15:30

Semantic Reference and Business Process Modeling enables Automatic Synthesis

Florian Lautenbacher, Bernhard Bauer



Session 4

- 16:00 - 16:20 POVOO - Process Oriented Views on Ontologies
Eva Gahleitner, Wolfram Wöß
- 16:20 - 16:40 Process Ontologies Facilitating Interoperability in
eGovernment - A Methodological Framework
Timo Herborn, Maria Wimmer
- 16:40 - 17:00 Modeling Web Services with URML
Adrian Giurca, Sergey Lukichev, Gerd Wagner
- 17:00 – 17:30 Final Discussion, Future Steps