

INTRODUCTION

BIS is an international conference with a long history. Although it was devoted to many research topics related to business information systems, one important aspect has not been discussed yet – ontologies. According to the commonly accepted definition, ontology is a formal, explicit specification of a shared conceptualization. A special session organized within forthcoming BIS 2003 is to fill this gap.

Ontologies are developed to provide a machine-processable semantics of information that is exchanged between different agents, both humans and software. They started in the Philosophy, evolved in Artificial Intelligence but nowadays other research communities adopt them very quickly. Ontologies face strong expectations, especially in the business area: Knowledge Management and Electronic Commerce. Ontologies are heavily exploited by Semantic Web – a vision to link data on the Web in a way that it can be used by machines not just for display purposes, but for automation, integration and reuse of data across various applications.

There are a lot of very interesting and promising projects that make use of ontologies. Many different standards emerge. Many groups develop own tools to facilitate use of languages. No one is able to track all activities. Often we are unsure, which proposal will become a standard, which solution is most widely used. It will be advantageous to compare different solutions, proposals, tools, services.

The goal of this special session is to share experiences about aforementioned systems, exchange ideas about improvements of existing

standards and tools and creation of new systems, principles and applications. Its expected outcome is a common vision about the future directions.

This special session is dedicated to groups who contribute to the development of ontologies that can be used in **Business Information Systems**. We are especially looking for innovative applications taking advantage of the ontologies.

TOPICS OF INTEREST

OntoBIS 2003 invites submissions related to all aspects of the ontologies. Papers MUST clearly demonstrate relevance to **the usage of ontologies in Business Information Systems**. Suggested topics include but are not limited to:

- Business Specific Ontologies
- Ontologies for Data Warehousing, Electronic Commerce, Workflow, ERP, CRM, etc.
- Ontologies Supporting E-Business
- Ontologies for Enterprise Integration
- Metadata and Ontologies
- Economic Models, Financial Justification of Ontologies
- Semantic Web for Decision Support
- Information Access, Searching the Semantic Web
- Semantic Web-enabled Web Services
- Agent Communication and Applications in the Semantic Web
- Visual modeling of Ontologies for BIS
- Electronic Trading Systems and Marketplaces
- Ontology Languages: e.g. Ontolingua, RDF, XOL, OIL, DAML-S, DAML+OIL
- Web Services Integration Standards (description, discovery and interoperation)

- Data/Information/Knowledge Integration by Use of Ontologies
- Use of Foundational Ontologies in BIS

The successful papers should focus on complex solutions rather than technological aspects.

SUBMISSION

Papers to be considered for regular conference presentation and proceedings should be submitted via the regular conference submission process. Detailed instructions, especially formatting, will be published on conference Web page (see <http://bis.kie.ae.poznan.pl>). Questions on content should be directed to: Dr. Krzysztof Węcel, K.Wecel@kie.ae.poznan.pl.

A. Research papers

Papers should not exceed 5000 words. They should describe original research (practical or theoretical). Theoretical papers should provide an overview of area of research closely related to ontologies in BIS. Practical papers can describe an implemented tool or service that contributes to the ontologies.

B. Work in progress

Papers should not exceed 2500 words. They may present some aspects related to ontologies and describe work that it is still in progress but its results may be interesting for a broader audience.

IMPORTANT DATES

Jan 15, 2003 submission deadline for long and work-in-progress papers to be published in refereed proceedings

Feb 28, 2003 notification of
acceptance/rejection
Apr 15, 2003 submission of final papers
Jun 4-6, 2003 the conference

SPECIAL SESSION CO-CHAIRS

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BUSINESS INFORMATION SYSTEMS 2003

With Technology Transfer

Call for Papers

OntoBIS

Ontologies for Business Information Systems

**SPECIAL SESSION IN CONJUNCTION WITH THE
6TH INTERNATIONAL CONFERENCE ON
BUSINESS INFORMATION SYSTEMS BIS 2003**

Colorado Springs, Colorado, USA
June 4–6, 2003

<http://bis.kie.ae.poznan.pl>



Submission deadline: January 15, 2003