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# *OTM 2005 PhD Student Symposium Call for Papers*

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## **OVERVIEW**

The PhD Student Symposium of the “On the Move” federated conferences is intended to bring together Ph.D. students within the subjects of the OTM community and give them the opportunity to present and to discuss their research in a stimulating, constructive and international atmosphere.

The OTM’05 PhD Student Symposium will be accompanied by prominent professors in the field of information systems which will actively participate and contribute to the discussions.

The workshop in Agia Napa, Cyprus, will be the 2nd PhD Symposium held in conjunction with the OTM conference before and during the first day (30 – 31 October) of the conference. The working language of the OTM PhD Student Symposium is English.

Presenting PhD students will enjoy a reduced subscription fee that, in addition, will give them free entrance to all conferences and workshops!

## **AIMS & OBJECTIVES**

Aim of the OTM PhD Student Symposium is to support the research done by doctoral students with constructive remarks and feedback from prominent scientists in the information systems field.

The PhD Student Symposium will be rounded off by a discussion of general questions related to Ph.D. research. They include, but are not limited to, the following aspects:

- problem formulation,
- analysis and evaluation of the state of the Ph.D. thesis,
- research methodology, including
  - underlying principles of the approach,
  - utility of the approach, as well as
  - validation of the results.
- critical evaluation of one's own work, including
  - identification of the target audience and beneficiaries of a thesis,
  - validation techniques (such as prototyping, field experiment, or argumentation),
- definition of the innovative contribution of a thesis to the existing state of the art.

## **TOPICS**

The OTM PhD Student Symposium deals with the topics of the main conference. In 2005 these topics include but are not restricted to

## Distributed Objects and Applications

- Applications of distributed-object technology
- Applying Model Driven Architecture (MDA)
- Component-based software development
- Enterprise-based component architectures
- Design of CORBA, .NET, and Java-based broker applications
- Design patterns for object-based components and applications
- Distributed business objects and components
- Distributed object databases
- Distributed object deployment, configuration, and metadata
- Integration of distributed objects and agent technology
- Integration of distributed objects and peer-to-peer technology
- Integration of multimedia and streaming technology with distributed objects
- Interoperability between object systems and complementary technology
- Management for distributed-object systems
- Mobility for distributed objects and object middleware
- Object-based Web services
- Pervasive distributed objects
- Real-time solutions for distributed objects
- Scalability for distributed objects and object middleware
- Security for distributed-object systems
- Software engineering for distributed object-based applications
- Solutions for (massive) caching and replication
- Specification and enforcement of Quality of Service (QoS)
- Technologies for reliability and fault-tolerant
- Web-based distributed objects

## Management of Semantically-Expressive Information

- Knowledge Acquisition and Representation
- Ontology Languages and Specification
- Ontology Extraction, Learning and Evolution
- Hypertext, Multimedia, and Hypermedia Data Management
- Semi-Structured Data
- Management and Integration of Large Ontology Bases
- Data Integration
- Semantic Middleware
- Information Dissemination
- Searching and Managing Dynamic Contents
- Self-organization in Information Systems
- Information Retrieval
- Terminology Management
- Data Filtering, Cleansing, and Summarization
- Metadata Management
- Data and Web Mining
- Security
- Information Quality

## Applications, Evaluations, and Experiences

- Media Archives and Digital Libraries
- Enterprise-wide Information Systems
- Web-based Information Systems
- Location-Dependent Information Services
- Web Services
- Intelligent Information Agents
- Electronic Commerce
- Electronic Government
- Scientific Databases
- Bioinformatics
- Ubiquitous and Mobile Information Systems

## Business Process Management

- Workflow management
- Business intelligence
- Configurable information systems

- Web services, choreography
- Business process execution languages

#### Software and information services for CIS

- Web information systems and services
- Middleware technologies, mediators, and wrappers
- Interoperability, XML, semantic interoperability
- Multi-databases
- Mobile and wireless systems and protocols
- Ubiquitous computing environments and tools
- Security and privacy in CIS
- Human-Computer Interactions

#### Agent technologies, systems and architectures for CIS

- Markets, auctions, exchanges, and coalitions
- Negotiation protocols, matchmaking, and brokering
- Multi-agents and agent societies
- Self-organizing systems, service description
- Thrust, learning, perception, and actions in agents
- Distributed problem solving, peer-to-peer cooperation

#### CIS applications and modeling

- E-commerce, e-government, supply chain
- Use of information in organizations
- Computer-supported cooperative work
- Enterprise knowledge management
- Data and knowledge modeling

## **ACCOMPANYING PROFESSORS**

- Sonia Bergamaschi, DataBase Group Dipartimento di Ingegneria dell'Informazione, Facoltà di Ingegneria - sede di Modena, Università di Modena e Reggio Emilia, Italy
- Jaime Delgado, Distributed Multimedia Applications Group (DMAG), Technology Department, Universitat Pompeu, Spain
- Jan Dietz, Department of Information Systems, Faculty of Technical Mathematics and Informatics, Technical University of Delft, The Netherlands
- Werner Nutt, School of Mathematical and Computer Sciences, Heriot-Watt University Edinburgh, U.K

## **SUBMISSIONS**

To apply for participation at the PhD Symposium, please submit an electronic version of your paper regarding your doctoral work via the cyberchair web page (<http://www.cs.rmit.edu.au/fedconf/phd/2005/papers>). The paper is restricted to 10 pages (LNCS format). Submissions may be handed in electronically in Postscript, PDF or MS Word format. Use the appropriate LNCS style from the Springer site. Author instructions can be found at: <http://www.springer.de/comp/lncs/authors.html>.

Different from other papers, this paper addresses specifically the Ph.D. student thesis! The paper should:

- have the PhD student as single author (by preference), or as first author with his/her (main) promotor as second author
- clearly formulate the research question,
- identify the significant problems in the field of research,
- outline the current knowledge of the problem domain, as well as the state of existing solutions,
- present clearly any preliminary ideas, the proposed approach and the results achieved so far,

- sketch the research methodology that is applied,
- point out the contributions of the applicant to the problem solution, and
- state in what aspects the suggested solution is different, new or better as compared to existing approaches to the problem.

Submissions will be judged on originality, significance, correctness, and clarity. Admission is limited to 10 - 14 Ph.D. students. A poster session for another 20-25 students is foreseen.

Failure to commit to presentation at the conference automatically excludes a paper from the proceedings.

## **ANNOUNCEMENT OF PROCEEDINGS**

Accepted workshop contributions will be published by Springer-Verlag as LNCS (Lecture Notes in Computer Science) as a part of the workshop proceedings of the 2005 International On The Move Federated Conferences (OTM).

## **IMPORTANT DATES**

<i>Deadline for notification of intent:</i>	<i>July 1st, 2005</i>
<i>Deadline for submission:</i>	<i>July 1st, 2005</i>
Notification of acceptance:	July 29 <sup>th</sup> 2005
Camera-ready paper due:	August 20 <sup>th</sup> , 2005
PhD Symposium:	October 30 <sup>th</sup> – October 31 <sup>st</sup> , 2005
OTM'05:	October 31 <sup>st</sup> – November 4 <sup>th</sup> , 2005

## **CONTACT**

The official web site URL: <http://www.cs.rmit.edu.au/fedconf/phd2005cfp.html>

The workshop web site: <http://www.starlab.vub.ac.be/events/OTM05PhD>

The official email address: [otm05phd-info@starlab.vub.ac.be](mailto:otm05phd-info@starlab.vub.ac.be)

The official submission web page: <http://www.cs.rmit.edu.au/fedconf/phd/2005/papers>

## **WORKSHOP ORGANIZERS**

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