

Call for Papers
FOIS-2004
International Conference on Formal Ontology in Information Systems
<http://www.fois.org>



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November 4-6, 2004, Torino (Italy)

Just as ontology developed over the centuries as part of philosophy, so in recent years ontology has become intertwined with the development of the information sciences. Researchers in such areas as artificial intelligence, formal and computational linguistics, biomedical informatics, conceptual modeling, knowledge engineering and information retrieval have come to realize that a solid foundation for their research calls for serious work in ontology, understood as a general theory of the types of entities and relations that make up their respective domains of inquiry. In all these areas, attention has started to focus on the *content* of information rather than on just the formats and languages in terms of which information is represented. The clearest example of this development is provided by the many initiatives growing up around the project of the Semantic Web. And as the need for integrating research in these different fields arises, so does the realization that strong principles for building well-founded ontologies might provide significant advantages over ad hoc, case-based solutions. The tools of Formal Ontology address precisely these needs, but a real effort is required in order to apply such philosophical tools to the domain of Information Systems. Reciprocally, research in the information science raises specific ontological questions which call for further philosophical investigations. The purpose of FOIS is to provide a forum for genuine interdisciplinary exchange in the spirit of a unified ontological analysis effort. Although the primary focus of the conference is on theoretical issues, methodological proposals as well as papers dealing with concrete applications from a well-founded theoretical perspective are welcome.

Invited Speakers

Peter Gärdenfors, Lund University Cognitive Science, Sweden

Amie Thomasson, Department of Philosophy, University of Miami, USA

Deadlines and Further Information

Abstracts due May 3, 2004

Final submissions May 7, 2004

Acceptance Notification: June 25, 2004

Submission of camera-ready paper: July 30, 2004

Proceedings will be published by IOS Press and available at the conference.

Submission is a two-step procedure: first abstracts, then full papers. Submitted papers must not exceed 5000 words (including bibliography). Abstracts should be less than 300 words. Electronic submission via the website is strongly preferred; if unavailable, submission via email or postal mail is possible. For details see: <http://www.fois.org>.

Conference Chair

Nicola Guarino (ISTC-CNR, Trento, Italy)
nicola.guarino@loa-cnr.it

Program Chairs

Achille Varzi (Columbia University, New York, USA)
achille.varzi@columbia.edu
Laure Vieu (IRIT-CNRS, Toulouse, France)
laure.vieu@irit.fr

Local Chairs

Maurizio Ferraris (University of Torino, Italy)
ferraris@cisi.unito.it
Leonardo Lesmo (University of Torino, Italy)
lesmo@di.unito.it

Publicity Chair

Jos Lehmann (ISTC-CNR, Rome, Italy)
joslehmann@www.ip.rm.cnr.it

Topics

We seek high-quality papers on a wide range of topics. While authors may focus on fairly narrow and specific issues, all papers should emphasize the relevance of the work described to formal ontology and to information systems. Papers that completely ignore one or the other of these aspects will be considered as lying outside the scope of the meeting. Topic areas of particular interest to the conference are:

Foundational Issues

- Kinds of entity: particulars vs. universals, continuants vs. occurrents, abstracta vs. concreta, dependent vs. independent, natural vs. artificial
- Formal relations: parthood, identity, connection, dependence, constitution, subsumption, instantiation
- Vagueness and granularity
- Identity and change
- Formal comparison among ontologies
- Ontology of physical reality (matter, space, time, motion, ...)
- Ontology of biological reality (genes, proteins, cells, organisms, ...)
- Ontology of mental reality and agency (beliefs, intentions and other mental attitudes; emotions, ...)
- Ontology of social reality (institutions, organizations, norms, social relationships, artistic expressions, ...)
- Ontology of the information society (information, communication, meaning negotiation, ...)
- Ontology and Natural Language Semantics, Ontology and Cognition

Methodologies and Applications

- Top-level vs. application ontologies
- Ontology integration and alignment; role of reference ontologies
- Ontology-driven information systems design
- Requirements engineering
- Knowledge engineering
- Knowledge management and organization
- Knowledge representation; Qualitative modeling
- Computational lexica; Terminology
- Information retrieval; Question-answering
- Semantic web; Web services; Grid computing
- Domain-specific ontologies, especially for: Linguistics, Geography, Law, Library science, Biomedical science, E-business, Enterprise integration, ...

Programme Committee

Bill Andersen, OntologyWorks, USA

Nicholas Asher, Dept of Philosophy, University of Texas at Austin, USA

Nathalie Aussenac-Gilles, Research Institute for Computer Science, CNRS, Toulouse, France

John Bateman, Dept of Applied English Linguistics, University of Bremen, Germany

Brandon Bennett, Division of Artificial Intelligence, University of Leeds, UK

Andrea Bottani, Dept of Philosophy, University of Bergamo, Italy

Joost Breuker, Dept of Computer Science & Law, University of Amsterdam, The Netherlands

Roberto Casati, Jean Nicod Institute, CNRS, Paris, France

Werner Ceusters, Language & Computing, Belgium

Tony Cohn, Division of Artificial Intelligence, University of Leeds, UK

Robert Colomb, School of Computer Science and Electrical Engineering, University of Queensland, Australia

Ernest Davis, Dept of Computer Science, New York University, USA

Martin Dörr, Institute of Computer Science, FORTH, Heraklion, Greece

Carola Eschenbach, Dept for Informatics, University of Hamburg, Germany

Jérôme Euzenat, INRIA Rhône-Alpes, Grenoble, France

Christiane Fellbaum, Cognitive Science Laboratory, Princeton University, USA & Berlin Brandenburg Academy of Sciences and Humanities, Berlin, Germany

Maurizio Ferraris, Dept of Philosophy, University of Torino, Italy

Antony Galton, School of Engineering and Computer Science, University of Exeter, UK

Aldo Gangemi, Institute of Cognitive Sciences and Technologies, CNR, Rome, Italy

Peter Gärdenfors, Lund University Cognitive Science, Sweden

Pierdaniele Giaretta, Dept of Philosophy, University of Padova, Italy

Michael Gruninger, Institute for Systems Research, University of Maryland College Park, USA & National Institute for Standards and Technology, USA

Nicola Guarino, Institute of Cognitive Sciences and Technologies, CNR, Trento, Italy

Patrick J. Hayes, Institute for Human and Machine Cognition, University of West Florida, USA

Heinrich Herre, Institute of Informatics, University of Leipzig, Germany

Jacques Jayez, ENS-Humanities, Lyon, France

Ingvar Johansson, Institute for Formal Ontology and Medical Information Science, University of Leipzig, Germany

Hannu Kangassalo, Dept of Computer and Information Sciences, University of Tampere, Finland

Fritz Lehmann, USA

Leonardo Lesmo, Dept of Computer Science, University of Torino, Italy

Bernardo Magnini, Centre for Scientific and Technological Research, ITC, Trento, Italy

David Mark, Dept of Geography, State University of New York, Buffalo, USA

William E. McCarthy, Department of Accounting, Michigan State University, USA

Robert Meersman, Dept of Computer Science, Free University of Brussels, Belgium

Chris Menzel, Dept of Philosophy, Texas A&M University, USA

Friederike Moltmann, Dept of Philosophy, Stirling University, UK
Philippe Muller, Research Institute for Computer Science, University of Toulouse III, France

John Mylopoulos, Dept of Computer Science, University of Toronto, Canada

Leo Obrst, MITRE, USA

Massimo Poesio, Dept of Computer Science, University of Essex, UK

Ian Pratt-Hartmann, Dept of Computer Science, University of Manchester, UK

James Pustejovsky, Dept of Computer Science, Brandeis University, USA

Steffen Schulze-Kremer, German Resource Center for Genome Research, Berlin, Germany

Peter Simons, School of Philosophy, University of Leeds, UK

Barry Smith, Dept of Philosophy, State University of New York, Buffalo, USA & Institute for Formal Ontology and Medical Information Science, University of Leipzig, Germany

John Sowa, USA

Veda Storey, Dept of Computer Information Systems, Georgia State University, USA

Mike Uschold, The Boeing Company, USA

Achille Varzi, Dept of Philosophy, Columbia University, USA

Laure Vieu, Research Institute for Computer Science, CNRS, Toulouse, France

Yair Wand, Management Information Systems Division, University of British Columbia, Vancouver, Canada

Chris Welty, IBM Watson Research Center, USA

Roel Wieringa, Computer Science Department, University of Twente, The Netherlands