



KR-MED 2006

International Workshop - November 8, 2006 in Baltimore, MD, USA

Biomedical Ontology in Action



Forewords

These are the proceedings of the KR-MED 2006, the **Second International Workshop on Formal Biomedical Knowledge Representation**, held in Baltimore, Maryland on November 8, 2006, two years after the first edition. The workshop is organized by the *National Center for Ontology Research* (NCOR) and the Working Group on Formal (Bio-)Medical Knowledge Representation of the *American Medical Informatics Association* (AMIA), and collocated with the *International Conference on Formal Ontology in Information Systems* (FOIS 2006).

Standing on the foundations of biomedical ontologies are the many applications supported by these ontologies. For example, in health care, ontologies are an important component of an interoperable health information technology infrastructure. In biology, ontologies have become essential for annotating the literature and integrating the multiple, heterogeneous knowledge bases resulting from the analysis of high-throughput experiments. The papers and posters featured at the workshop illustrate and demonstrate how current research can be brought to bear on the practical problems associated with the development of applications supported by these ontologies. In other words, they show “biomedical ontology *in action*”.

The scientific content of this workshop was elaborated by an international program committee composed of the following individuals:

- Olivier Bodenreider (National Library of Medicine, USA), Chair
- Anita Burgun (University of Rennes, France)
- Ronald Cornet (Amsterdam Academic Medical Center, The Netherlands)
- Maureen Donnelly (State University of New York at Buffalo, USA)
- Aldo Gangemi (ISTC Laboratory of Applied Ontology, Italy)
- Michael Gruninger (University of Toronto, Canada)
- Anand Kumar (IFOMIS, Germany)
- Philip Lord (University of Newcastle, UK)
- Yves Lussier (University of Chicago, USA)
- Onard Mejino (University of Washington, USA)
- Peter Mork (Mitre Corporation, USA)
- Fabian Neuhaus (State University of New York at Buffalo, USA)
- Daniel Rubin (Stanford University, USA)
- Stefan Schulz (Freiburg University Hospital, Germany)
- Lowell Vizenor (National Library of Medicine, USA)
- Chris Welty (IBM T.J. Watson Research Center, USA)
- Jennifer Williams (OntologyWorks, USA)

Lan Aronson, Tracy Craddock, Olivier Dameron, Keith Flanagan, Kin Wah Fung, John Kilbourne, Erik van Mulligen, Serguei Pakhomov, Valentina Presutti, Tom Rindflesch, Daniel Swan and Chris Wroe also helped referee the submissions.

27 papers were submitted to KR-MED 2006, of which the program committee selected ten for oral presentation. Four submissions will be presented as posters. An electronic version of the workshop proceedings will soon be available on CEUR-WS (<http://CEUR-WS.org>). In addition, an extended version of the best papers will be selected for publication in the journal *Applied Ontology*.

The Organizing Committee of KR-MED 2006 includes Stefan Schulz (Freiburg University Hospital, Germany), Barry Smith (State University of New York at Buffalo, USA) and Fabian Neuhaus (State University of New York at Buffalo, USA). Sandra Smith (NCOR) has orchestrated the logistics of the meeting and Stefan Schlachter (Freiburg University Hospital, Germany) created the KR-MED 2006 web site (<http://www.imbi.uni-freiburg.de/medinf/kr-med-2006/>).

My thanks go to all of you who helped make this workshop possible and successful.

Olivier Bodenreider

National Library of Medicine, USA
Chair, KR-MED 2006 Scientific Program Committee