

Table of Contents

Invited Papers

Patterns for the Pragmatic Web	1
<i>Aldo de Moor</i>	
Conceptual Graphs for Semantic Web Applications	19
<i>Rose Dieng-Kuntz, Olivier Corby</i>	
Knowledge Representation and Reasoning in (Controlled) Natural Language	51
<i>Norbert E. Fuchs</i>	
What Is a Concept?	52
<i>Joseph Goguen</i>	
Applications of Description Logics: State of the Art and Research Challenges	78
<i>Ian Horrocks</i>	
Methodologies for the Reliable Construction of Ontological Knowledge	91
<i>Eduard Hovy</i>	
Using Formal Concept Analysis and Information Flow for Modelling and Sharing Common Semantics: Lessons Learnt and Emergent Issues	107
<i>Yannis Kalfoglou, Marco Schorlemmer</i>	
On the Need to Bootstrap Ontology Learning with Extraction Grammar Learning	119
<i>Georgios Paliouras</i>	
Conzilla — A Conceptual Interface to the Semantic Web	136
<i>Mattias Palmér, Ambjörn Naeve</i>	

Theoretical Foundations

Variables in Concept Graphs	152
<i>Frithjof Dau</i>	
Arbitrary Relations in Formal Concept Analysis and Logical Information Systems	166
<i>Sébastien Ferré, Olivier Ridoux, Benjamin Sigonneau</i>	
Merge-Based Computation of Minimal Generators	181
<i>Céline Frambourg, Petko Valtchev, Robert Godin</i>	

X Table of Contents

Representation of Data Contexts and Their Concept Lattices in General Geometric Spaces	195
<i>Tim B. Kaiser</i>	
Local Negation in Concept Graphs	209
<i>Julia Klinger</i>	
Morphisms in Context	223
<i>Markus Krötzsch, Pascal Hitzer, Guo-Qiang Zhang</i>	
Contextual Logic and Aristotle's Syllogistic	238
<i>Rudolf Wille</i>	
States of Distributed Objects in Conceptual Semantic Systems	250
<i>Karl Erich Wolff</i>	

Knowledge Engineering and Tools

Hierarchical Knowledge Integration Using Layered Conceptual Graphs	267
<i>Madalina Croitoru, Ernesto Compatangelo, Chris Mellish</i>	
Evaluation of Concept Lattices in a Web-Based Mail Browser	281
<i>Shaun Domingo, Peter Eklund</i>	
D-SIFT: A Dynamic Simple Intuitive FCA Tool	295
<i>Jon Ducrou, Bastian Wormuth, Peter Eklund</i>	
Analyzing Conflicts with Concept-Based Learning	307
<i>Boris A. Galitsky, Sergei O. Kuznetsov, Mikhail V. Samokhin</i>	
Querying a Bioinformatic Data Sources Registry with Concept Lattices . . .	323
<i>Nizar Messai, Marie-Dominique Devignes, Amedeo Napoli, Malika Smail-Tabbone</i>	
How Formal Concept Lattices Solve a Problem of Ancient Linguistics	337
<i>Wiebke Petersen</i>	
A New Method to Interrogate and Check UML Class Diagrams	353
<i>Thomas Raimbault, David Genest, Stéphane Loiseau</i>	

Knowledge Acquisition and Ontologies

Language Technologies Meet Ontology Acquisition	367
<i>Galia Angelova</i>	
Weighted Pseudo-distances for Categorization in Semantic Hierarchies	381
<i>Cliff A. Joslyn, William J. Bruno</i>	
Games of Inquiry for Collaborative Concept Structuring	396
<i>Mary A. Keeler, Heather D. Pfeiffer</i>	

Toward Cooperatively-Built Knowledge Repositories	411
<i>Philippe Martin, Michael Blumenstein, Peter Deer</i>	
What Has Happened to Ontology	425
<i>Peter Øhrstrøm, Jan Andersen, Henrik Schärfe</i>	
Enhancing the Initial Requirements Capture of Multi-Agent Systems Through Conceptual Graphs	439
<i>Simon Polovina, Richard Hill</i>	
Outline of <i>trikonic</i> $\triangleright^* k$: Diagrammatic Trichotomic	453
<i>Gary Richmond</i>	
Author Index	467

Conceptual Structures: Common Semantics for Sharing
Knowledge

13th International Conference on Conceptual
Structures, ICCS 2005, Kassel, Germany, July 17-22,
2005, Proceedings

Dau, F.; Mugnier, M.-L.; Stumme, G. (Eds.)

2005, XI, 467 p., Softcover

ISBN: 978-3-540-27783-5