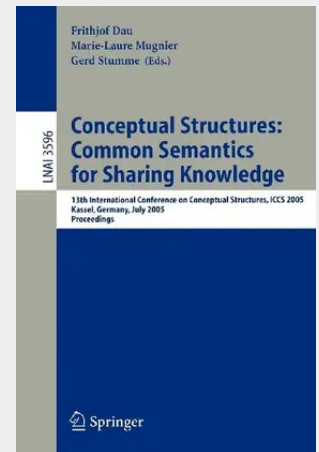


Conceptual Structures: Common Semantics for Sharing Knowledge

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

The 13th International Conference on Conceptual Structures (ICCS 2005) was held in Kassel, Germany, during July 17–22, 2005. Information about the conference can be found at <http://www.kde.cs.uni-kassel.de/conf/iccs05>. The title of this year's conference, "Common Semantics for Sharing Knowledge", was chosen to emphasize on the one hand the overall aim of any knowledge representation formalism, to support the sharing of knowledge, and on the other hand the importance of a common semantics to avoid distortion of the meaning. We understand that both aspects are of equal importance for a successful future of the research area of conceptual structures. We are thus happy that the papers presented at ICCS 2005 addressed both applications and theoretical foundations. "Sharing knowledge" can also be understood in a separate sense. Thanks to the German Research Foundation, DFG, we were able to invite nine internationally renowned researchers from adjacent research areas. We had stimulating presentations and lively discussions, with bidirectional knowledge sharing. Eventually the ground can be laid for establishing common semantics between the respective theories. This year, 66 papers were submitted, from which 22 were selected to be included in this volume. In addition, the first nine papers present the invited talks. We wish to express our appreciation to all the authors of submitted papers, to the members of the Editorial Board and the Program Committee, and to the external reviewers for making ICCS 2005 a valuable contribution to the knowledge processing research field.

Invited Papers.- Patterns for the Pragmatic Web.- Conceptual Graphs for Semantic Web Applications.- Knowledge Representation and Reasoning in (Controlled) Natural Language.- What Is a Concept?.- Applications of Description Logics: State of the Art and Research Challenges.- Methodologies for the Reliable Construction of Ontological Knowledge.- Using Formal Concept Analysis and Information Flow for Modelling and Sharing Common Semantics: Lessons Learnt and Emergent Issues.- On the Need to Bootstrap Ontology Learning with Extraction Grammar Learning.- Conzilla - A Conceptual Interface to the Semantic Web.- Theoretical Foundations.- Variables in Concept Graphs.- Arbitrary Relations in Formal Concept Analysis and Logical Information Systems.- Merge-Based Computation of Minimal Generators.- Representation of Data Contexts and Their Concept Lattices in General Geometric Spaces.- Local Negation in Concept Graphs.- Morphisms in Context.- Contextual Logic and Aristotle's Syllogistic.- States of Distributed Objects in Conceptual Semantic Systems.- Knowledge Engineering and Tools.- Hierarchical Knowledge Integration Using Layered Conceptual Graphs.- Evaluation of Concept Lattices in a Web-Based Mail Browser.- D-SIFT: A Dynamic Simple Intuitive FCA Tool.- Analyzing Conflicts with Concept-Based Learning.- Querying a Bioinformatic Data Sources Registry with Concept Lattices.- How Formal Concept Lattices Solve a Problem of Ancient Linguistics.- A New Method to Interrogate and Check UML Class Diagrams.- Knowledge Acquisition and Ontologies.- Language Technologies Meet Ontology Acquisition.- Weighted Pseudo-distances for Categorization in Semantic Hierarchies.- Games of Inquiry for Collaborative Concept Structuring.- Toward Cooperatively-Built Knowledge Repositories.- What Has Happened to Ontology.- Enhancing the Initial Requirements Capture of Multi-Agent Systems Through Conceptual Graphs.- Outline of trikonik? * k: Diagrammatic Trichotomic.



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