ICCS 2001

9th International Conference on Conceptual Structures: Broadening the Base

— Program —

Monday, July 30

Registration at TC Seq

09.00-18.00 Workshops

Workshop on Concept Lattice-based theory, methods and tools for Knowledge Discovery in Databases

http://www.ksl.Stanford.EDU/iccs2001/clkdd2001/

Room: Gates B12

9.00-9.15 Welcome to participants

9.15-10.15 **Invited Talk**: Association Rules – Past, Present, and Future

Ramakrishnan Srikant (IBM, San José, USA)

10.15-10.40 Coffee Break

Theoretical Background and Applications

10.40-11.10 Why Can Concept Lattices Support Knowledge Discovery in Databases? R. Wille, Germany

11.10-11.40 Structuration of phenotypes/genotypes through Galois lattices and implications *V. Duquenne, France*

11.40-12.30 Discussion

12.30-14.00 Lunch Break

Algorithms and Implications

14.00-14.25 Algorithms for the Construction of the Set of All Concepts and Their Line Diagram

S. Kuznetsov & S. Ob"ekov, Russia

14.25-14.50 Computing Proper Implications

R. Taouil & Y. Bastide, France

14.50-15.20 Discussion

15.20-15.45 Coffee Break

Lattices Compression & Temporal Analysis

15.45-16.10 Building a pruned inheritance lattice structure for relational description *M. Courtine & I. Bournaud, France*

16.10-16.35 A Lattice-Based Data Structure for Information Retrieval and Machine Learning

F.J. van der Merwe & D.G. Kourie, South Africa

16.35-17.00 Temporal Concept Analysis

K.E. Wolff, Germany

17.00-17.30 Discussion

General Discussion and Conclusion

17.30-17.50 General Discussion

17.50-18.00 Conclusion

PORT's Workshop on the Semantic Web

http://www.ksl.Stanford.EDU/iccs2001/SemanticWeb.htm

Room: TCseq 102

Joint Session with the Semantic Web Mining Workshop SWWS

09.00-9:30 Workshop Introduction

09:30-10:30 Invited Talk: Title to be announced

Eric Miller (W3C Semantic Web activity leader)

(Room: TCSeq 200)

10.30-10.45 Coffee Break

10.45-12.00 Demos and Discussions with:

Ted Nelson Doug Engelbart Tim Lenoir

PORT Tools Demos (Joint Session with the Workshop on Conceptual Graphs Tools)

12.30-14.00 Generic Access to CORBA objects using CGs

Arno Puder

CHASID, Content structure modelling and checking in a graph-based

authoring support system

Felix Gatzemeier

Coda - A tool for conceptual data analysis

Uta Priss

RENISYS: supporting the socio-technical system evolution of

critical communities

Aldo de Moor

14.00-15.30 Joint Session with the Workshop on Conceptual Graphs Tools

19.30 **Panel Discussion:** The Future of KR in the Semantic Web

Panelists: Keith Devlin, Terry Winograd, Geoff Nunberg, and Deborah McGuinness

Workshop on Conceptual Graphs Tools

http://www.cs.nmsu.edu/~hdp/CGTools

Room: TCseq 102

Conceptual Graph Tools Demos (Joint Session with the PORT Workshop on the Semantic Web)

14.00-14.10 Notio

Finnegan Southey

14.10-14.30 CharGer

Harry Delugach

14.30-14.50 pCG

David Benn

14.50-15.10 CGWorld

Kristina Toutanova, Pavlin Dobrev

15.10-15.30 ARCEdit

Heather Pfeiffer

Tuesday, July 31Registration at TC Seq Talks at BioT 175 (Herrin Hall)

Logical and Mathematical Foundations of Conceptual Structures

09.10-09.20 09.20-10.00	Welcome Invited Talk: Peirce's Beta Graphs: Ligatures and Lines of Identity Robert Burch
10.00-10.15	Discussion
10.15-10.35	Generalized Quantifers and Conceptual Graphs Tru H. Cao
10.40-11.20	Coffee Break
11.20-11.40	Formal Concept Analysis Methods for Dynamic Conceptual Graphs Bernhard Ganter, Sebastian Rudolph
11.45-12.05	Relational Constructions on Semiconcept Graphs Silke Pollandt
12.10-12.30	Simple Semiconcept Graphs: A Boolean Logic Approach Julia Klinger
12.35-12.55	Refinement of Conceptual Graphs Juliette Dibie-Barthélemy, Ollivier Haemmerlé, Stéphane Loiseau
13.00-15.00	Lunch Break
15.00-15.20	Mathematical Support for Empirical Theory Building Selma Strahringer, Rudolf Wille, Uta Wille
15.25-15.45	Many-valued Context Analysis using Descriptions Ralf Gugisch
15.50-16.10	Pattern Structures and Their Projections Bernhard Ganter, Sergei O. Kuznetsov
16.15-16.50	Coffee Break
Conceptual Hierarchies	
16.50-17.10	Building Concept (Galois) Lattices from Parts: Generalizing the Incremental Methods Petko Valtchev, Rokia Missaoui
17.15-17.35	Multi-dimensional Representations of Conceptual Hierarchies Peter Becker
17.40-18.00	Reverse Pivoting in Conceptual Information Systems Jo Hereth, Gerd Stumme
20.00	Welcome Party Gold Room of the Stanford Faculty Club

Wednesday, August 1st Registration at TC Seq Talks at BioT 175 (Herrin Hall)

ICCS/DL Joint Session

09.00-09.20	Ontology of Integration and integration of ontologies
00 25 00 45	Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini
09.25-09.45	Boolean Judgment Logic Rudolf Wille
09.50-10.10	Concept Graphs and Predicate Logic
	Frithjof Dau
10.15-10.35	Searching for Objects and Properties with Logical Concept Analysis
	Sébastien Ferré, Olivier Ridoux
10.40-11.20	Coffee Break
11.20-11.40	The Generation of DAML+OIL
	lan Horrocks and Peter F. Patel-Schneider
11.45-12.05	OilEd: a Reason-able Ontology Editor for the Semantic Web
12.10-12.30	Sean Bechhofer, Ian Horrocks, Carole Goble, Robert Stevens Description of the RACER System and its Applications
12.10-12.30	Ralf Moeller
12.35-12.55	Large-scale cooperatively-built KBs
	Philippe Martin, Peter Eklund
13.00-15.00	Lunch Break

Conceptual Structures and the World Wide Web (Joint Session with DL)

15.00-15.20	Extension of RDFS based on the CGs formalism Alexandre Delteil, Catherine Faron-Zucker, Rose Dieng
15.25-15.45	Browsing Semi-structured Web texts using Formal Concept Analysis Richard Cole, Peter Eklund
15.50-16.10	A Web-based Browsing Mechanism Based on Conceptual Structures M. Kim, P. Compton
16.15-16.25	Description Logics Emerge from Ivory Tower D. L. McGuinness (Position Paper)
16.25-17.00	Coffee Break

Conceptual Structures and the World Wide Web

16.50-17.10	Making Virtual Communities Work: Matching Their Functionalities Aldo de Moor, Willem-Jan van den Heuvel
17.15-17.25	SemTalk: A RDFS Editor for Visio 2000 C. Fillies, F. Weichhardt (Position Paper)
20.00	Conference Banquet Gold Room of the Stanford Faculty Club

Thursday, August 2ndRegistration at TC Seq
Talks at BioT 175 (Herrin Hall)

Language and Knowledge Structures	
09.00-09.20	Aspecto-temporal Data and Lexical Represantations in French within Simple Conceptual Graphs on the Basis of Semantico-Cognitive Schemes Tassadit Amghar, Thierry Charnois, Delphine Battistelli
09.25-09.45	Learning to Generate CGs from Domain Specific Sentences Zhang, Yong Yu
09.50-10.10	Word Graphs: The Third Set C. Hoede, L. Zhang
10.15-10.35	Structural Parsing C. Hoede, L. Zhang
10.40-11.20	Coffee Break
Languages	
11.20-11.40	Uses, Improvements and Extensions of Prolog+CG: Case Studies Adil Kabbaj, Bernard Moulin, Jeremi Gancet, David Nadeau, Olivier Rouleau
11.45-12.05	CG-KQML+: An Agent Communication Language and its Use in a Multi-Agent System K. Bouzouba, B. Moulin, A. Kabbaj
12.10-12.30	An Application of the Process Mechanism to a Room Allocation Problem using the pCG Language
12.35-12.55	David Benn, Dan Corbett An Algorithmic Definition of CG Operations Based on a Bootstrap Step A. Kabbaj, B. Moulin
13.00-15.00	Lunch Break
Conceptual Modeling and Systems	
15.00-15.20	Dependency Analysis Using Conceptual Graphs L. Cox, H. S. Delugach
15.25-15.45	A CG Query Engine Based on Relational Power Context Families B. Groh, P. Eklund
15.50-16.10	Authoring Operations Based on Weighted Schemata F. H. Gatzemeier
16.15-16.50	Coffee Break

CGExtract: Towards Extraction of Conceptual Graphs from Controlled English

S. Boytcheva, P. Dobrev, G. Angelova
Ossa - A Conceptual Modelling System for Virtual Realities

Position Papers

16.50-17.10

17.15-17.35

17.40-17.50	The Philosophical Foundation of Conceptual Knowledge: A Sociopragmatic Approach
	B. Wyssusek, M. Schwartz, B. Kremberg
17.50-18.00	Flexible Concept Lattices
	E. Mephu Nguifo
18.00-18.10	Process Representation in Temporal Concept Analysis
	K. E. Wolff

Finnegan Southey, James G. Linders

Friday, August 3rd
Registration at TC Seq
Talks at BioT 175 (Herrin Hall)

Ontology

09.00-09.40	Invited Talk: Signs, Processes, and Language Games John F. Sowa
09.40-09.50	Discussion
09.50-10.10	A Peircean Ontology of Language Janos Sarbo, Jozsef Farkas
10.15-10.35	A Triadic Model of Information Flow Uta Priss
10.40-11.20	Coffee Break
11.20-11.40	Invited Talk: Ontology Standards Nancy Lawler
11.45-12.05	Conceptual Graphs and Metamodeling Olivier Gerbé, Guy W. Mineau, Rudolf K. Keller
12.10-12.30	Conceptual Modeling Systems: Active Knowledge Processes in Conceptual Categories C. Landauer, K. L. Bellman
12.35-12.55	Solving-Oriented and Domain-Oriented Knowledge Structures: Their Application to Debugging Problem Solving Activity Slim Masmoudi
13.00-13.30	Concluding Dissussion

Workshop: Ontology Room: BioT 175 (Herrin Hall)

15.00-16.00	Panel Discussion: Requirements for ontology in applications Panelists: Nancy Lawler (Department of Defense), Mark Musen (Stanford University) Adam Pease (Teknowledge), Livia Polanyi (Fuji-Xerox), Bob Spillers
16.00-17.00	Panel Discussion: Theoretical issues in ontology design and development Panelists: Nicola Guarino, Pat Hayes, John McCarthy, John Sowa, Gio Wiederhold
17.00-18.00	Open discussion of future directions