

# Program of ICCS 2005

— Version of July 11, 2005 —

The conference registration is located in Room 0439, Knowledge & Data Engineering Group, University of Kassel, Wilhelmshöher Allee 73, D-34121 Kassel.

## Sunday, July 17

- 10<sup>00</sup> – 13<sup>00</sup> Workshop “Pragmatic Support for Collaborative Inquiry”  
10<sup>00</sup> – 13<sup>00</sup> Workshop “Formal and Semi-Formal Summaries”  
15<sup>00</sup> – 18<sup>00</sup> Tutorial “Mathematical Foundations of Conceptual Graphs”  
15<sup>00</sup> – 18<sup>00</sup> ICCS 2005 Tools Workshop  
19<sup>00</sup> – 22<sup>00</sup> ICCS Welcome Party in Gerd’s garden

## Monday, July 18

- 8<sup>15</sup> Registration opens

Opening	
9 <sup>00</sup> – 9 <sup>05</sup>	<b>Gerd Stumme:</b> Opening of ICCS 2005
9 <sup>05</sup> – 9 <sup>10</sup>	<b>Prof. Dr. Rolf-Dieter Postlep, President of the University of Kassel:</b> Welcome to the University of Kassel

Ontologies		Chair: Frithjof Dau
9 <sup>15</sup> – 10 <sup>00</sup>	<b>Eduard Hovy (Invited Talk):</b> Methodologies for Reliable Construction of Ontological Knowledge	L 95
10 <sup>05</sup> – 10 <sup>25</sup>	<b>Peter Øhrstrøm, Jan Andersen, Henrik Schärfe:</b> What has happened to Ontology	L 420

- 10<sup>30</sup> – 11<sup>15</sup> Coffee break

FCA Applications		Chair: Karl Erich Wolff
11 <sup>15</sup> – 11 <sup>35</sup>	<b>Shaun Domingo, Peter Eklund:</b> Evaluation of Concept Lattices in a Web-based Mail Browser	L 276
11 <sup>40</sup> – 12 <sup>00</sup>	<b>Jon Ducrou, Bastian Wormuth, Peter Eklund:</b> D-SIFT: A Dynamic Simple Intuitive FCA Tool	L 290
12 <sup>05</sup> – 12 <sup>25</sup>	<b>Nizar Messai, Marie-Dominique Devignes, Amedeo Napoli, Malika Smail-Tabbone:</b> Browsing and querying a bioinformatic data source registry with concept lattices	L 319
12 <sup>30</sup> – 12 <sup>50</sup>	<b>Wiebke Petersen:</b> How Formal Concept Lattices Solve a Problem of Ancient Linguistics	L 333

- 12<sup>55</sup> – 14<sup>30</sup> Lunch break

Semantic Web Applications I		Chair: Michel Chein
14 <sup>30</sup> – 15 <sup>15</sup>	<b>Ambjörn Naeve (Invited Talk):</b> Conzilla: a Conceptual Interface to the Semantic Web	L 140
15 <sup>20</sup> – 15 <sup>40</sup>	<b>Anjo Anjewierden, Robert de Hoog, Rogier Brussee, and Lilia Efimova:</b> Detecting Knowledge Flows in Weblogs	C 1

- 15<sup>45</sup> – 16<sup>20</sup> Coffee break

Databases and Information Systems		Chair: Peter Eklund
16 <sup>20</sup> – 16 <sup>40</sup>	<b>Thomas Raimbault, David Genest, Stephane Loiseau:</b> A new method to interrogate and check UML class diagrams	L 348
16 <sup>45</sup> – 17 <sup>05</sup>	<b>Uta Priss:</b> Establishing connections between Formal Concept Analysis and Relational Databases	C 132
17 <sup>10</sup> – 17 <sup>30</sup>	<b>Sébastien Ferré, Olivier Ridoux, Benjamin Sigonneau:</b> Arbitrary Relations in Formal Concept Analysis and Logical Information Systems	L 169
17 <sup>35</sup> – 17 <sup>55</sup>	<b>Jaume Baixeries and José Luis Balcázar:</b> A Lattice Representation of Relations, Multivalued Dependencies and Armstrong Relations	C 13
18 <sup>00</sup> – 18 <sup>20</sup>	<b>Karl Erich Wolff:</b> States of Distributed Objects in Conceptual Semantic Systems	L 248

Tuesday, July 19

Philosophical & Mathematical Issues I		Chair: Rudolf Wille
9 <sup>00</sup> – 9 <sup>45</sup>	<b>Joseph Goguen (Invited Talk):</b> What is a Concept?	L 52
9 <sup>50</sup> – 10 <sup>10</sup>	<b>Markus Krötzsch, Pascal Hitzer, Guo-Qiang Zhang:</b> Morphisms in Context	L 225

10<sup>15</sup> – 11<sup>00</sup> Coffee break

Philosophical & Mathematical Issues II		Chair: Peter Øhrstrøm
11 <sup>00</sup> – 11 <sup>20</sup>	<b>Rudolf Wille:</b> Contextual Logic and Aristotles Syllogistic	L 239
11 <sup>25</sup> – 11 <sup>45</sup>	<b>Gary Richmond:</b> Outline of trikonic $\triangleright^*k$ : Diagrammatic Trichotomic	L 448
11 <sup>50</sup> – 12 <sup>10</sup>	<b>Mary A. Keeler, Heather D. Pfeiffer:</b> Games of Inquiry for Collaborative Concept Structuring	L 390
12 <sup>15</sup> – 12 <sup>35</sup>	<b>Xin-Wen Liu:</b> An Axiomatic System for Peirces Alpha Graphs	C 122

12<sup>40</sup> – 14<sup>30</sup> Lunch break, Meeting of the Editorial Board

Semantic Web Applications II		Chair: Marie Laure Mugnier
14 <sup>30</sup> – 15 <sup>15</sup>	<b>Rose Dieng-Kuntz (Invited Talk):</b> Conceptual Graphs for Semantic Web Applications	L 19
15 <sup>20</sup> – 15 <sup>40</sup>	<b>Pavlin Dobrev, Albena Strupchanska:</b> Conceptual Graphs and Annotated Semantic Web Pages	C 54

15<sup>45</sup> – 16<sup>20</sup> Coffee break

Querying Knowledge		Chair: Mary Keeler
16 <sup>20</sup> – 16 <sup>40</sup>	<b>Tru H. Cao, Hai T. Do, Bao T.N. Pham, Tuyen N. Huynh, Duy Q. Vu:</b> Conceptual Graphs for Knowledge Querying in VN-KIM	C 27
16 <sup>45</sup> – 17 <sup>05</sup>	<b>Catherine Roussey, Sylvie Calabretto:</b> A Multilingual Information Retrieval System Based on Conceptual Graph Structure	C 172

Position Papers		Chair: Heather Pfeiffer
17 <sup>10</sup> – 17 <sup>18</sup>	<b>David J. Cox:</b> FLIPP: A User-Preferred Interface for Knowledge Sharing	C 199
17 <sup>20</sup> – 17 <sup>28</sup>	<b>Richard Dapoigny, Patrick Barlatier, Nacima Melal, Laurent Foulloy, Eric Benoit:</b> Goal Integration for Service Interoperability of Engineering Systems	C 201
17 <sup>30</sup> – 17 <sup>38</sup>	<b>David P. Hodgins, Pavel Kocura:</b> Propositional Theorem Prover for Peirce-Logic	C 203
17 <sup>40</sup> – 17 <sup>48</sup>	<b>Christian Jacquelinet, Anita Burgun:</b> Generating Diseases Concept and Antonyms	C 205
17 <sup>50</sup> – 17 <sup>58</sup>	<b>Gábor Rédey:</b> Representing relations between individuals and universals	C 207

Wednesday, July 20

Natural Language Processing		Chair: John Sowa
9 <sup>00</sup> – 9 <sup>45</sup>	<b>Norbert Fuchs (Invited Talk):</b> Knowledge Representation and Reasoning in (Controlled) Natural Language	L 51
9 <sup>50</sup> – 10 <sup>10</sup>	<b>Galia Angelova:</b> Language Technologies Meet Ontology Acquisition	L 362

10<sup>15</sup> – 10<sup>45</sup> Coffee break

Semantic Hierarchies and Concept Lattices		Chair: Sergei Kuznetsov
10 <sup>45</sup> – 11 <sup>05</sup>	<b>Céline Frambourg, Petko Valtchev, Robert Godin:</b> Merge-based computation of minimal generators	L 183
11 <sup>10</sup> – 11 <sup>30</sup>	<b>Cliff A. Joslyn, William J. Bruno:</b> Weighted Pseudo-Distances for Categorization in Semantic Hierarchies	L 376
11 <sup>35</sup> – 11 <sup>55</sup>	<b>Tim B. Kaiser:</b> Representation of Data Contexts and their Concept Lattices in General Geometric Spaces	L 197

12<sup>00</sup> – 12<sup>40</sup> Lunch break

12<sup>45</sup> / 13<sup>30</sup> Bus Departure from University to Schlosspark Wilhelmshöhe

14<sup>00</sup> – 16<sup>00</sup> Water Arts at Schlosspark Wilhelmshöhe

16<sup>00</sup> – 17<sup>00</sup> Time for a walk in the park, short visit of the museum, coffee break, etc.

17<sup>00</sup> / 17<sup>35</sup> Bus Departure from Schlosspark Wilhelmshöhe to Marmorbad/Orangerie

17<sup>45</sup> – 18<sup>30</sup> Guided Tour through the Marmorbad

18<sup>30</sup> – 19<sup>15</sup> Second Tour through the Marmorbad (if required)

19<sup>30</sup> – 22<sup>00</sup> Conference Dinner at the Karlsauae Orangerie

22<sup>30</sup> / 23<sup>00</sup> Bus Departure to Wilhelmshöher Allee

Thursday, July 21

Description Logics Applications		Chair: Bernhard Ganter
9 <sup>00</sup> – 9 <sup>45</sup>	<b>Ian Horrocks (Invited Talk):</b> Applications of Description Logics: State of the Art and Research Challenges	L 82
9 <sup>50</sup> – 10 <sup>10</sup>	<b>Ken Kaneiwa:</b> Negations in Description Logic – Contraries, Contradictories, and Subcontradictories	C 66

10<sup>40</sup> – 11<sup>25</sup> Coffee break

Conceptual and Existential Graphs Foundations		Chair: Wilfried Lex
10 <sup>15</sup> – 10 <sup>35</sup>	<b>Frithjof Dau:</b> Variables in Concept Graphs	L 155
11 <sup>25</sup> – 11 <sup>45</sup>	<b>Julia Klinger:</b> Local Negation in Concept Graphs	L 211
11 <sup>50</sup> – 12 <sup>10</sup>	<b>Madalina Croitoru, Ernesto Comptangelo, Chris Mellish:</b> Hierarchical knowledge integration using layered conceptual graphs	L 262
12 <sup>15</sup> – 12 <sup>35</sup>	<b>Pavel Kocura:</b> Hanging Monadic Relations in Conceptual Graphs	C 80

12<sup>40</sup> – 14<sup>30</sup> Lunch break

Modelling and Sharing Common Semantics		Chair: Guy Mineau
14 <sup>30</sup> – 15 <sup>15</sup>	<b>Yannis Kalfoglou (Invited Talk):</b> Using Formal Concept Analysis and Information Flow for Modelling and Sharing Common Semantics: Lessons Learnt and Emerging Issues	L 111
15 <sup>20</sup> – 15 <sup>40</sup>	<b>Boris A. Galitsky, Sergei O. Kuznetsov, Mikhail V. Samokhi:</b> Analyzing Conflicts with Concept-Based Learning	L 302

15<sup>45</sup> – 16<sup>20</sup> Coffee break

Graph and Order Based Applications		Chair: Uta Priss
16 <sup>20</sup> – 16 <sup>40</sup>	<b>Rhys N. Reed, Pavel Kocura:</b> Conceptual Graph based Criminal Intelligence Analysis	C 146
16 <sup>45</sup> – 17 <sup>05</sup>	<b>Rhys N. Reed, Pavel Kocura:</b> Automated Discovery of Reccuring Criminal Occurence Patterns	C 160
17 <sup>10</sup> – 17 <sup>30</sup>	<b>Guo-Qiang Zhang, Ye Tian:</b> ACOSys: An Experimental Systems for Automated Content Organisation	C 186
17 <sup>35</sup> – 17 <sup>55</sup>	<b>Harry S. Delugach, Aldo de Moor:</b> Difference Graphs	C 41
18 <sup>00</sup> – 18 <sup>20</sup>	<b>Xiaodong Liu, C. Hoede:</b> Sememe Analysis and Structural Parsing	C 108

Friday, July 22

Ontology Learning and Theoretical Foundations		Chair: Galia Angelova
9 <sup>00</sup> – 9 <sup>45</sup>	<b>George Paliouras (Invited Talk):</b> On the Need to Bootstrap Ontology Learning with Extraction Grammar Learning	L 123
9 <sup>50</sup> – 10 <sup>10</sup>	<b>Serguei Levachkine, Adolfo Guzman-Arenas, and Victor-Polo de-Gyves:</b> The Semantics of Confusion in Hierarchies. Theory and Practice	C 94

10<sup>15</sup> – 10<sup>50</sup> Coffee break

Pragmatic Web and Communication		Chair: Harry Delugach
10 <sup>50</sup> – 11 <sup>35</sup>	<b>Aldo de Moor (Invited Talk):</b> Patterns for the Pragmatic Web	L 1
11 <sup>40</sup> – 12 <sup>00</sup>	<b>Philippe Martin, Michael Blumenstein, Peter Deer:</b> Toward cooperatively-built knowledge repositories	L 406
12 <sup>05</sup> – 12 <sup>25</sup>	<b>Simon Polovina, Richard Hill:</b> Enhancing the Initial Requirements Capture of Multi-Agent Systems through Conceptual Graphs	L 434

12<sup>30</sup> – 13<sup>00</sup> Final discussion and farewell