

Final Program for the 2nd International Conference on Formal Concept Analysis
The University of New South Wales, School of Computer Science and Engineering, Building K17
February 24–26, 2004

Tuesday, February 24, 2004

Session Chair: Paul Compton

- 900 915 Opening Ceremony and Official Welcome – Professor Brendon Parker (Dean of Engineering, UNSW)
915 1000 Rudolf Wille, Preconcept Algebras and Generalized Double Boolean Algebras

1000 1030 *Morning Tea Break*

Session Chair Gerd Stumme

- 1030 1105 Joachim Hereth Correia and Julia Klinger, Protoconcept Graphs: The Lattice of Conceptual Contents
1105 1140 Uta Priss, Signs and Formal Concepts
1140 1205 Joachim Hereth Correia and Tim B. Kaiser, A Mathematical Model for TOSCANA-Systems: Conceptual Data Systems
1205 1230 Sebastien Ferre and Ross D. King, BLID: an Application of Logical Information Systems to Bioinformatics
1230 1330 *Lunch*

Session Chair Rudolf Wille

- 1330 1415 Brian A. Davey, Formal Concept Analysis: Its role in teaching lattice theory
1415 1455 Peter Eklund, Jon Ducrou and Peter Brawn, Concept lattices for Information Visualization: Can Novices Read Line-Diagrams?
1455 1530 Juan M. Cigarran Recuero, Browsing search results via Formal Concept Analysis: automatic selection of attributes
1530 1600 *Afternoon Tea*

Session Chair Petko Valtchev

- 1600 1625 Ben Martin, Formal Concept Analysis and Semantic File Systems
1625 1650 Peter Becker, Numerical Analysis in Conceptual Systems with ToscanaJ
1650 1715 Thomas Tilley, Tool Support for FCA
1715 1800 Ralph Freese, Automated Lattice Drawing
1800 Close

Wednesday February 25, 2004

Session Chair: Peter Eklund

- 915 1000 Bernhard Ganter, Congruences of Finite Distributive Concept Algebras

1000 1030 *Morning Tea Break*

Session Chair: Bernhard Ganter

- 1030 1105 Leonhard Kwuida, When is a Concept Algebra Boolean?
1105 1140 Frithjof Dau, Background Knowledge in Concept Graphs
1140 1205 Peter Becker and Richard Cole, Agreement Contexts in Formal Concept Analysis
1205 1230 Karl Erich Wolff, Towards a Conceptual Theory of Indistinguishable Objects
1230 1330 *Lunch*

Session Chair: Uta Priss

- 1330 1415 Philipp Cimiano, Andreas Hotho, Gerd Stumme, Julien Tane, Conceptual Knowledge Processing with Formal Concept Analysis and Ontologies
1415 1450 Bjoern Vormbrock, A First Step Towards Protoconcept Exploration

- 1455 1530 Tim B. Kaiser and Stefan E. Schmidt, Geometry of Data Tables

1530 1600 *Afternoon Tea*

Session Chair: Karl Erich Wolf

- 1600 1625 Jean Diatta, Concept Extensions and Weak Clusters associated with Multiway dissimilarity Measures
1625 1650 John Old, Unlocking the Semantics of Roget's Thesaurus Using Formal Concept Analysis
1650 1715 Yannis Kalfoglou, Srinandan Dasmahapatra and Yun-Heh Chen-Burger, FCA Experiences and Opportunities with Knowledge Technologies
1715 1800 Franz Baader and Baris Sertkaya, Applying Formal Concept Analysis to Description Logic
1800 Close

Thursday February 26, 2004

Session Chair: Peter Eklund

- 915 1000 Sergei O. Kuznetsov, Machine Learning and Formal Concept Analysis

1000 1030 *Morning Tea Break*

Session Chair: Richard Cole

- 1030 1105 Huaiguo Fu, Huaiguo Fu, Patrick Njiwoua, Engelbert Mephu Nguifo, A Comparative Study of FCA-based Supervised Classifier Algorithms
1105 1130 Peter Busch, Debbie Richards, Modelling Tacit Knowledge via Questionnaire Data
1130 1205 Michael Bain, Predicate Invention and the Revision of First Order Concept Lattices
1205 1230 Joachim Hereth Correia and Reinhard Pöschel, The Power of Peircean Algebraic Logic (PAL)
1230 1330 *Lunch*

Session Chair: Engelbert Mephu Nguifo

- 1330 1415 Petko Valtchev, Rokia Missaoui, Robert Godin, Formal Concept Analysis for Knowledge and Data Discovery: The New Challenges
1415 1440 FJ (Dean) van der Merwe, S. Obiedkov, and DG Kourie, AddIntent: A New Incremental Algorithm for Constructing Concept Lattices
1440 1505 Peter A. Grigoriev and Serhiy A. Yevtushenko, QuDA: Applying Formal Concept Analysis in a Data Mining Environment
1505 1530 Huaiguo Fu and Engelbert Mephu Nguifo, A parallel algorithm to generate formal concepts for large data
1530 1555 Debbie Richards, Using Concept Lattices for Requirements Reconciliation
1600 1610 **Best paper Award and Close – Presented by Professor Paul Compton**

- 1700 2000 *Harbour Cruise – pickup point is Circular Quay – Cruise leaves 17.30 sharp.*