

CLA 2008

CLA 2008

The Sixth International Conference on

Concept Lattices and Their Applications

to be held in:

Olomouc, Czech Republic
October 21–23, 2008

CLA 2008 is jointly organized by Palacky University, Olomouc, Czech Republic and State University of New York at Binghamton, USA

CLA 2008 Program

Tuesday, October 21, 2008

8:00 – 18:30 **Registration**

9:00 – 9:30 **Opening**

9:30 – 10:30 **Invited Lecture 1** Chair: Sergei O. Kuznetsov

Bernhard Ganter:
Recent Interfaces for Formal Concept Analysis

10:30 – 11:00 **Coffee Break**

11:00 – 12:00 **Invited Lecture 2** Chair: Rudolf Wille

Dominik Ślęzak:
Rough Sets and Formal Concept Analysis: Foundations and the Case Studies of Feature Subset Selection and Knowledge Structure Formation

12:00 – 14:00 **Lunch** (on your own)

14:00 – 15:40 **Session 1** Chair: Uta Priss

14:00 – 14:25 *Rudolf Wille, Renate Wille-Henning:*
The Mathematical in Music Thinking

14:25 – 14:50 *Tobias Schlemmer, Stefan E. Schmidt:*
A Formal Concept Analysis of Harmonic Forms and Interval Structures

14:50 – 15:15 *Tim B. Kaiser:*
Connecting Many-valued Contexts to General Geometric Structures

15:15 – 15:40 *Léonard Kwuida, Hajime Machida:*
On the Isomorphism Problem of Concept Algebras

15:40 – 16:00 **Coffee Break**

16:00 – 17:40 **Session 2** Chair: Bernhard Ganter

16:00 – 16:25 *Eduard Bartl, Radim Belohlavek, Jan Konecny:*
Optimal Decompositions of Matrices with Grades into Binary and Graded Matrices

16:25 – 16:50 *Laszlo Szathmari, Petko Valtchev, Amedeo Napoli, Robert Godin:*
An Efficient Hybrid Algorithm for Mining Frequent Closures and Generators

16:50 – 17:15 *Petr Krajca, Jan Outrata, Vilem Vychodil:*
Parallel Recursive Algorithm for FCA

17:15 – 17:40 *Tarek Hamrouni, Sadok Ben Yahia, Engelbert Mephu Nguifo:*
GARM: Generalized Association Rule Mining

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CLA 2008 Program

Wednesday, October 22, 2008

9:00 – 10:00 **Invited Lecture 3** Chair: Radim Belohlavek

Petr Hájek:
The GUHA Method and its Meaning for Data Mining

10:00 – 10:20 **Coffee Break**

10:20 – 12:00 **Session 3** Chair: Stefan E. Schmidt

10:20 – 10:45 *Dmitry I. Ignatov, Sergei O. Kuznetsov:*
Concept-based Recommendations for Internet Advertisement

10:45 – 11:10 *Thomas Girault:*
Concept Lattice Mining for Unsupervised Named Entity Annotation

11:10 – 11:35 *Dominik Endres, Peter Földiák, Uta Priss:*
An Application of Formal Concept Analysis to Neural Decoding

11:35 – 12:00 *Stéphanie Guillas, Karell Bertet, Muriel Visani, Jean-Marc Ogier, Nathalie Girard:*
Some Links Between Decision Tree and Dichotomic Lattice

12:00 – 14:00 **Lunch** (on your own)

15:00 – open **Social Program**

Historical and Cultural Heritage of Olomouc — Guided Tour.
Dinner.

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CLA 2008 Program

Thursday, October 23, 2008

- 9:00 – 10:00 **Invited Lecture 4** Chair: Engelbert Mephu Nguifo
George Karypis:
 Biclustering Methods Meets Formal Concept Analysis
- 10:00 – 10:20 **Coffee Break**
- 10:20 – 12:00 **Session 4** Chair: Stanislav Krajčí
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- 10:20 – 10:45 *Uta Priss:*
 FCA Software Interoperability
- 10:45 – 11:10 *José Antonio Alonso-Jiménez, Gonzalo A. Aranda-Corral, Joaquín Borrego-Díaz, M. Magdalena Fernández-Lebrn, M. José Hidalgo-Doblado:*
 Extending Attribute Exploration by Means of Boolean Derivatives
- 11:10 – 11:35 *Xavier Dolques, Jean-Rémy Falleri, Marianne Huchard, Clémentine Nebut:*
 A Model-driven Engineering Based RCA Process for Bi-level Models Elements/Meta-elements: Application to Description Logics
- 11:35 – 12:00 *Jiří Zacpal, Erik Sigmund, Josef Mitáš, Vladimír Sklenář:*
 Application of the Formal Concept Analysis in Evaluation of Results of ANEWS Questionnaire and Physical Activity of the Czech Regional Centers
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- 12:00 – 14:00 **Lunch** (on your own)
- 14:00 – 15:15 **Session 5** Chair: Vilem Vychodil
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- 14:00 – 14:25 *Michal Krupka:*
 Factorization of Concept Lattices with Hedges by Means of Factorization of Residuated Lattices
- 14:25 – 14:50 *Ondrej Krídlo, Stanislav Krajčí:*
 Proto-fuzzy Concepts, their Retrieval and Usage
- 14:50 – 15:15 *Pavel Martinek:*
 On Generalization of Fuzzy Concept Lattices Based on Change of Underlying Fuzzy Order
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- 15:15 – 15:35 **Coffee Break**
- 15:35 – 16:00 **Session 6 (Poster Session)** Chair: Michal Krupka
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- Viorica Varga, Katalin Tünde Jánosi Rancz:*
 A Software Tool to Transform Relational Databases in Order to Mine Functional Dependencies in it Using Formal Concept Analysis
- Nida Meddouri, Mondher Maddouri:*
 Classification Methods Based on Formal Concept Analysis
- Li Ai Xiang, Makoto Haraguchi, Yoshiaki Okubo:*
 Finding Top-N Formal Concepts Guided by Dynamic Ordering of Objects (abstract)
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- 16:00 **Conference ends**

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Lattice-Based Modeling Workshop Program

Tuesday, October 21, 2008

Uta Priss, L. John Old:
Lattice-Based Modelling of Thesauri

13:00 – 14:00 *Vassilis G. Kaburlasos, S. E. Papadakis:*
Piecewise-Linear Approximation of Nonlinear Models Based on Interval Numbers (INs)

S. E. Papadakis, Vassilis G. Kaburlasos:
Computation of a Sufficient Condition for System Input Redundancy

Wednesday, October 22, 2008

Manuel Graña, Maite Garcia-Sebastian, Ivan Villaverde, Elsa Fernandez:
An Approach from Lattice Computing to fMRI Analysis

13:00 – 14:00 *Gonzalo Urcid, Gerhard X. Ritter, Jose-Angel Nieves-Vazquez:*
Redundant Encoding of Patterns in Lattice Associative Memories

Anestis G. Hatzimichailidis, Vassilis G. Kaburlasos:
A Fuzzy Implication Stemming from a Fuzzy Lattice Inclusion Measure

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