INVESTMENTS IN EDUCATION DEVELOPMENT

The Tenth International Conference on Concept Lattices and Their Applications, CLA 2013

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The Tenth International Conference on Concept Lattices and Their Applications, CLA 2013

Conference

- held in: La Rochelle, France, October 15?18, 2013
- organized by: Laboratory L3i – University of La Rochelle, France

Our talks

Jan Konečný, Manuel Ojeda-Aciego: Isotone **L**-bonds.

- study of intercontextual relations formalized as bonds,
- properties of bonds,
- atempt to remove the need of DNL from the antitone case,
- direct product,
- proper explanation why not all bonds are direct product.
- relationship to resuls antitone case with DNL.

Martin Trnečka, Markéta Krmelová: Boolean Factor Analysis of Multi-Relational Data.
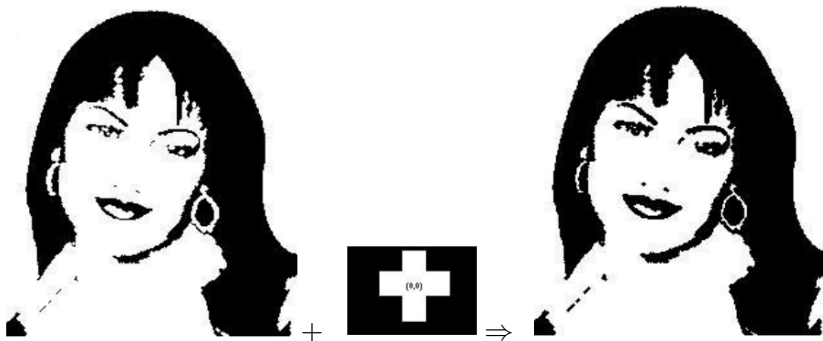
- BFA, in classical setting can handle only one simple data table.
- Usually modern database are composed from many data tables and are interconnected via relations, i.e. multi-relational data.
- In this paper were proposed new method for multi-relational data and various interpretation of results.
- New method was demonstrated on simple examples.

Jan Outrata: A lattice-free concept lattice update algorithm based on *CbO
...will be covered in his presentation.

Interesting talks

Cristina Alcalde, Ana Burusco, Juan Carlos Daz, Ramon Fuentes-Gonzalez, Jess Medina :
On information retrieval in morphological image and signal processing

- continuation of papers on relationship of FFCA with isotone GC and mathematical morphology (image = set, structuring element = context; isotone concept-forming operators = erosion, dilation.

Further interesting talks

Ondrej Krdlo, Patrik Mihalin, Stanislav Kraji, Lubomr Antoni: Formal Concept Analysis of higher order (best paper award)

- Interconnecting formal contexts via bonds and chu-correspondences.
- Connection to heterogeneous formal contexts and connections to standard homogenic fuzzy operators.

Invited talks

Prof. Dr. Ralph Freese (University of Hawaii, USA)
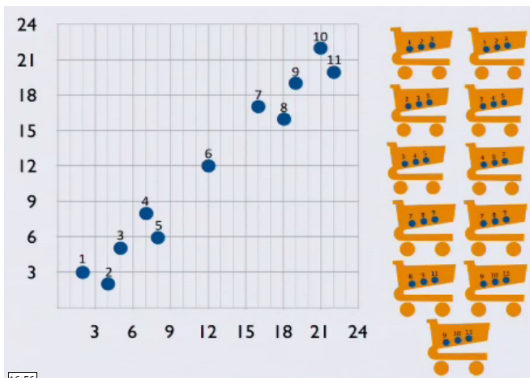**Projective Lattices with applications to isotope maps and databases**

- Presentation of UCalc: Universal Algebra Calculator `http://uacalc.org`
- Projective lattices, join dependency relation.

Prof. Dr. Bart Goethals (University of Antwerp, Belgium)
Cartification – turning similarities into itemset frequencies or how to turn every database into a supermarket

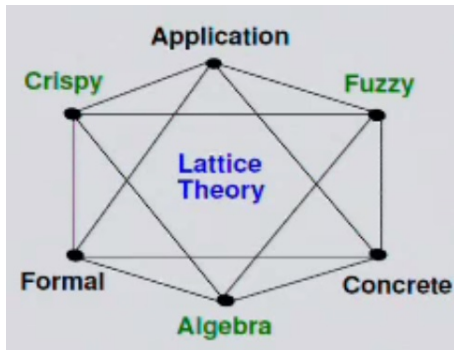- relationship between clustering and frequent itemset mining.

Prof. Dr. Michel Grabisch (Universite Paris I Pantheon-Sorbonne, France)
Cooperative games on lattices

- Motivated by game theory and
- Games with Restriced domain
- The Core of Games with Restricted Domain
- Games on Concept Lattices

Prof. Dr. Vincent Duquenne (Université Pierre et Marie Curie, France)
Some Applications of Lattice Analysis (1983-2013)

- Aplications of Lattice Analysis: Implication models, Simplifying scinetific languages
- Scalability of LA/FCA algorithms
- Relationship of LA and FCA.

Want to know more?

- Videorecords available: `http://portail-video.univ-lr.fr/CLA2013`.
- Papers available: `http://cla.inf.upol.cz/papers.html`.

Group photo (Kony not included)

THANK YOU!