

Programme of 4th workshop FCA4AI

25 July 2015

- 08.45 –
09.00 Introduction
- 09.00 –
10.00 Invited talk: Using Trust Networks to Improve Data Quality and Recommendations
Hernan Astudillo (*UFSTM, Valparaiso, Chile*)
- 10.00 –
10.30 Bridging DBpedia Categories and DL–Concept Definitions using Formal Concept Analysis
Mehwish Alam, Aleksey Buzmakov, Victor Codocedo and Amedeo Napoli (*LORIA – Inria Nancy Grand Est, France*)
- 10.30 –
11.00 Coffee Break
- 11.00 –
11.30 SOFIA: How to Make FCA Polynomial?
Aleksey Buzmakov, Sergei O. Kuznetsov and Amedeo Napoli (*LORIA – Inria Nancy Grand Est, France and National Research University – HSE Moscow, Russia*)
- 11.30 –
12.00 Pattern Structures for News Clustering
Tatyana Makhalova, Dmitry Ilvovsky and Boris Galitsky (*National Research University – HSE Moscow, Russia, and Knowledge–Trail Inc., San Jose, CA USA*)
- 12.00 –
12.30 Lazy Classification with Interval Pattern Structures: Application to Credit Scoring
Alexey Masyutin, Yury Kashnitsky and Sergei O. Kuznetsov (*National Research University – HSE Moscow, Russia*)
- 12.30 –
12.45 Discussion
- 12.45 –
13.45 Lunch Break

Concept Definitions
and Ontologies

Pattern Structures

13.45 – 14.15	A Conceptual–KDD Tool for Ontology Construction from a Database Schema Renzo Stanley and Hernán Astudillo (<i>UFSTM, Valparaiso, Chile</i>)	Concept Definitions and Ontologies
14.15 – 14.45	Reduction in Triadic Data Sets Sebastian Rudolph, Christian Săcărea and Diana Troancă (<i>TU Dresden, Germany, and University Babeş-Bolyai, Cluj-Napoca, Romania</i>)	
14.45 – 15.15	Lazy Associative Graph Classification Yury Kashnitsky and Sergei O. Kuznetsov (<i>National Research University – HSE Moscow, Russia</i>)	Extensions
15.15 – 15.30	Discussion	
15.30 – 16.00	Coffee Break	
16.00 – 16.30	Machine–assisted Cyber Threat Analysis using Conceptual Knowledge Discovery Martín Barrère, Gustavo Betarte, Víctor Codocedo, Marcelo Rodríguez, Hernán Astudillo, Marcelo Aliquintuy, Javier Baliosian, Carlos Raniery Paula Dos Santos, Jéferson Campos Nobre, Lisandro Zambenedetti Granville and Amedeo Napoli (<i>Universidad de la República, Uruguay, and LORIA – Inria Nancy Grand Est, France, and UFSTM, Valparaiso, Chile, and UFRGS, Brazil, and Imperial College London, UK</i>)	Applications
16.30 – 17.00	RAPS: A Recommender Algorithm Based on Pattern Structures Dmitry Ignatov and Denis Kornilov (<i>National Research University – HSE Moscow, Russia</i>)	
17.00 – 17.30	Finding a Lattice of Needles in a Haystack: Forming a Query from a Set of Items of Interest Boris Galitsky (<i>Knowledge–Trail Inc., San Jose, CA USA</i>)	
17.30 – 17.45	Discussion	