

Monday, August 18, 2014

Location: Technická 2, Prague 6

Website: www.fel.cvut.cz.

8:30-9:00 Registration

9:00-9:15 **Welcome, Opening Remarks, RuleML 2014 chairs**

9:15-9:30 An Introduction to the Deliberation RuleML 1.01 Specification and MYNG 1.01 Technology, Harold Boley, Tara Athan

Chair: Dumitru Roman

9:30-10:30 **RuleML 2014 Keynote: Rules, Events and Actions, Adrian Paschke, Freie Universität Berlin, Germany**

Chair: Leora Morgenstein

10:30-11:00 *Coffee Break (provided)*

11:00-12:30 RuleML conference talks: Rules and Human Language Technology Special Track

Chairs: Francois Levy and Adam Wyner

- Juyeon Kang and Saint Dizier Patrick. *Requirement Compound Mining and Analysis* (25 min. presentation)
- Shashishekar Ramakrishna and Adrian Paschke. *Semi-Automated Vocabulary Building for Structured Legal English* (25 min. presentation)
- C. Maria Keet and Langa Khumalo. *Basics for a grammar engine to verbalize logical theories in isiZulu* (20 min. presentation)
- Driss Sadoun, Catherine Dubois, Yacine Ghamri-Doudane and Brigitte Grau. *Formal Rule Representation and Verification from Natural Language Requirements Using an Ontology* (20 min. presentation)

12:30-14:00 *Lunch Break*

14:00-14:45 **Invited talk: Rule-based Clinical Decision Support, Jürgen Angele, Smedy AG, Zug, Switzerland**

Chair: Dumitru Roman

14:45-15:35 RuleML conference talks (interoperability and rules interchange)

Chair: Nick Bassiliades

- Harold Boley, Rolf Gruetter, Gen Zou, Tara Athan and Sophia Etzold. *A Datalog+ RuleML 1.01 Architecture for Rule-Based Data Access in Ecosystem Research* (25 min. presentation)
- Pablo Fillostrani and C. Maria Keet. *Conceptual Model Interoperability: a Metamodel-driven Approach* (25 min. presentation)

15:35-16:00 *Coffee Break (provided)*

16:00-16:30 LegalRuleML Tutorial, by Tara Athan and Monica Palmirani

16:30-17:40 RuleML conference talks: Legal Rules and Norms Special Track

Chairs: Monica Palmirani and Guido Governatori

- Mustafa Hashmi, Guido Governatori and Moe Wynn. *Modeling Obligations with the Event-Calculus* (25 min. presentation)
- Shashishekar Ramakrishna and Adrian Paschke. *A Process for Knowledge Transformation and Knowledge Representation of Patent Law* (25 min. presentation)
- Clara Smith, Antonino Rotolo, Giovanni Sartor and Erica Calardo. *Legal Responsibility for the Acts of Others: A Logical Analysis* (20 min. presentation)

Tuesday, August 19, 2014

Location: Technická 2, Prague 6

Website: www.fel.cvut.cz.

9:00-10:30 **RuleML 2014 Tutorial: Rule learning, Johannes Fuernkranz, TU Darmstadt, Germany**

Chair: Antonis Bikakis

10:30-10:50 *Coffee Break (provided)*

10:50-12:30 RuleML conference talks: Learning (Business) Rules from Data Special Track

Chairs: Tomas Kliegr and Davide Sottara

- Tomas Kliegr, Jaroslav Kuchar, Davide Sottara and Stanislav Vojír. *Learning Business Rules with Association Rule Classifiers* (25 min. presentation - peer-reviewed paper in the main track)
- Ladislav Peska and Peter Vojtas. *Interpreting Web Shop User's Behavioral Patterns as Fictitious Explicit Rating for Preference Learning* (25 min. presentation)
- Jan Rauch and Milan Simunek. *Learning Association Rules from Data through Domain Knowledge and Automation* (25 min. presentation)

- Mario Luca Bernardi, Marta Cimitile, Chiara Di Francescomarino and Fabrizio Maria Maggi. *Using Discriminative Rule Mining to Discover Declarative Process Models with Non-Atomic Activities* (25 min. presentation)

12:30-13:50 *Lunch Break*

13:50-14:20 The RuleML Doctorial Consortium

Chairs: Petros Stefaneas and Monica Palmirani

- Tarcisio M. Farias. *A Rule Based System for Semantical Enrichment of Building Information Exchange*(15 min. presentation)
- Hamza Agli. *Uncertain Reasoning for Business Rules* (15 min. presentation)

14:20-15:35 The 8th International Rule Challenge

Chairs: Theodore Patkos, Adam Wyner and Adrian Giurca

- Benjamin Dönz and Harold Boley. *Extracting Data from the Deep Web with Global-as-View Mediators Using Rule-Enriched Semantic Annotations*. (15 min. presentation)
- Iosif Viktoratos, Athanasios Tsadiras and Nick Bassiliades. *Geosocial SPLIS: A Rule-Based Service for context-aware point of interest exploration*. (15 min. presentation)
- Stanislav Vojir, Premysl Vaclav Duben and Tomas Kliegr. *Business Rule Learning with Interactive Selection of Association Rules*. (15 min. presentation)
- Adrian Paschke and Harold Boley. *Reaction RuleML 1.0 for Distributed Rule-Based Agents in Rule Responder*. (15 min. presentation)
- Jakub Dutkiewicz, Maciej Nowak and Czeslaw Jedrzejek. *R2E: Rule-based Event Extractor*. (15 min. presentation)

15:35-16:00 *Coffee Break (provided)*

16:00-17:30 The 8th International Rule Challenge

Chairs: Theodore Patkos, Adam Wyner and Adrian Giurca

- Davide Sottara, Robert Greenes, Peter Haug, Edinando Potrich and Matthew Ebert. *The Health eDecisions Authoring Environment for Shareable Clinical Decision Support Artifacts*. (15 min. presentation)
- Filippos Gouidis, Giorgos Flouris and Dimitris Plexousakis. *A demo for Smart City Operation Center*. (15 min. presentation)
- Tara Athan and Harold Boley. *The MYNG 1.01 Suite for Deliberation RuleML 1.01: Taming the Language Lattice*. (15 min. presentation)

- Mohammad Sadnan Al Manir. *Offshore Holdings Analytics Using Datalog+ RuleML Rules*. (15 min. presentation)
- Gen Zou. *GeospatialRules: A Datalog+ RuleML Rulebase for Geospatial Reasoning*. (15 min. presentation)
- Matthias Tylkowski and Martin Muller. *Experiences Using Deliberation RuleML 1.01 as Rule Interchange Language*. (15 min. presentation)

19:30 Welcome drink of ECAI

Wednesday, August 20, 2014

Location: Clarion Congress Hotel, Freyova 33, Prague 9

Website: www.clarioncongresshotelprague.com

9:00-10:00 **RuleML 2014 Keynote talk: Luc De Raedt**

Chair: Dumitru Roman

10:00-10:30 *Coffee Break (provided)*

10:30-12:10 RuleML conference talks

Chair: Adrian Giurca

- Robert Kowalski and Fariba Sadri. *Completeness of a Reactive System Language* (25 min. presentation)
- Katerina Ksytra, Nikolaos Triantafyllou and Petros Stefanias. *On Verifying Reactive Rules Using Rewriting Logic* (25 min. presentation)
- Marco Calautti, Sergio Greco, Cristian Molinaro and Irina Trubitsyna. *Checking Termination of Logic Programs with Function Symbols Through Linear Constraints* (25 min. presentation)
- Mingmin Chen, Shizhuo Yu, Nico Franz, Shawn Bowers and Bertram Ludaescher. *A Hybrid Diagnosis Approach Combining Black-box and White-box Approaches* (25 min. presentation)

12:10-13:40 *Lunch Break*

13:40-14:30 **Invited talk: Efficient mapping rules in OBDA, Arild Waaler, University of Oslo, Norway**

Chair: Dumitru Roman

14:30-15:20 RuleML conference talks (rules and reasoning applications)

Chair: Guido Governatori

- Iosif Viktoratos, Athanasios Tsadiras and Nick Bassiliades. *Using Rules to Develop a Personalized and Social Location Information System for the Semantic Web* (25 min. presentation)
- Zaenal Akbar, José María García, Ioan Toma and Dieter Fensel. *On Using Semantically-aware Rules for Efficient Online Communication* (25 min. presentation)

15:20-15:50 *Coffee Break (provided)*

15:50-16:10 RuleML conference talks (rules and reasoning applications cont.)

Chair: Guido Governatori

- Ayesha Aziz, Salvador Rodriguez and Chris Chatwin. *From Guidelines to Practice: Improving clinical care through Rule based Clinical Decision Support at the point of care* (20 min. presentation)

16:10-17:15 RuleML conference talks (uncertainty, defeasibility, nonmonotonic reasoning)

Chair: Harold Boley

- Pierpaolo Dondio. *Multi-valued Argumentation Frameworks* (25 min. presentation)
- Guido Governatori, Francesco Olivieri, Simone Scannapieco and Matteo Cristani. *The hardness of revising defeasible preferences* (20 min. presentation)
- Szymon Bobek and Grzegorz J. Nalepa. *Incomplete and uncertain data handling in context-aware rule-based systems with modified certainty factors algebra* (20 min. presentation)

17:15-17:30 RuleML Closing Session: Best Paper Awards, Rule Challenge Awards, Rulebase Competition Award and Doctorial Consortium Paper Award, RuleML 2014 chairs