RuleML 2010
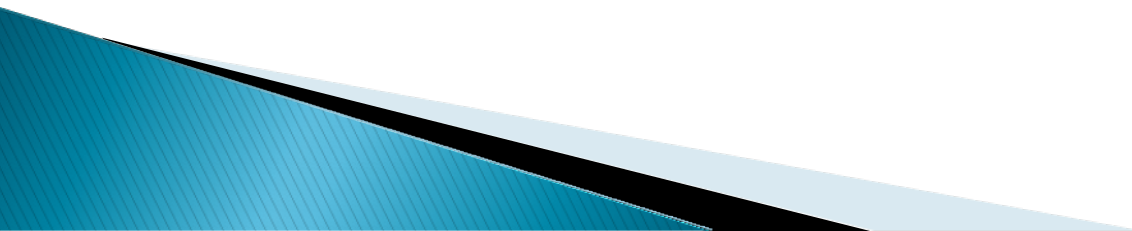## 4th International Web Rule Symposium
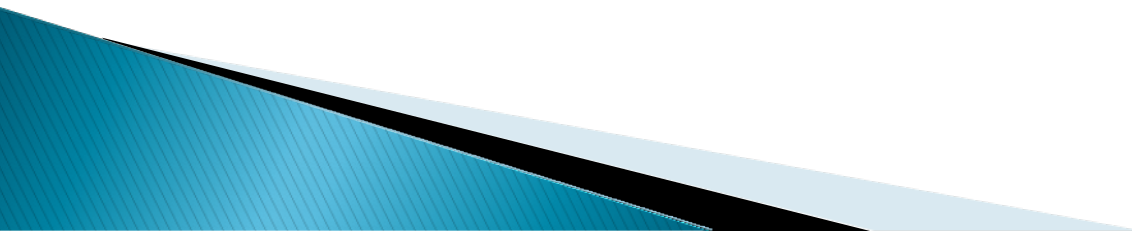### Alexandria, VA, USA
21 – 23 October 2010
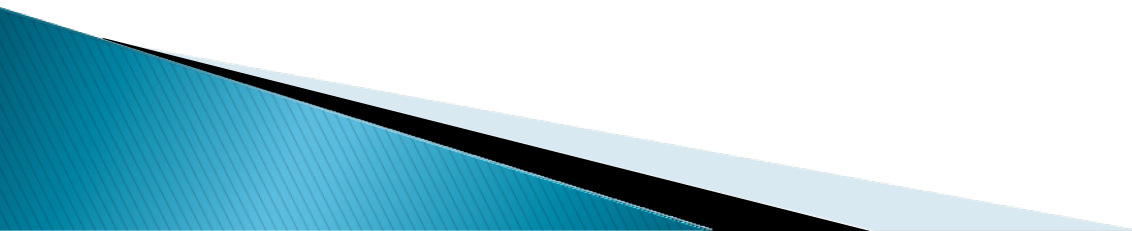
David Chudán,
Tomáš Kliegr

History of the conference

- Evolved from an annual series of international workshops since 2002, international conferences in 2005 and 2006, and international symposia since 2007.
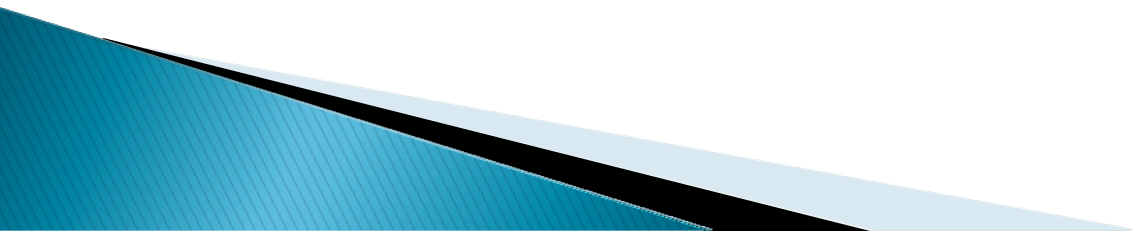
Focus of the conference

- Practical rule technologies and rule-based applications, which need language standards for rules.
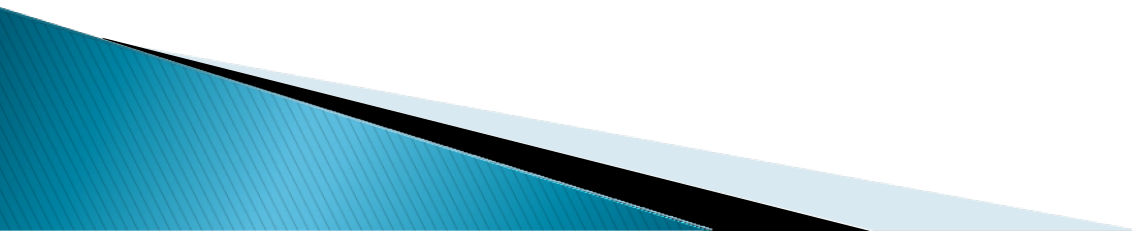- Semantic web, Enterprice systems, Intelligent multi-agent systems, Event-driven architecture, SOA.

RuleML initiative

- Organized by representatives from academia, industry and government for promotion of the modern and future generation rule technology.
- The goal: to be a general and open intermediary between varios „standardized" rule vendors, applications, industrial and research working groups.

RuleML initiative

- Collaborating with OASIS on Legal XML, Policy RuleML.
- Interacting with the developers of ISO Common Logic (CL), which became an International Standard.
- A member of OMG, contributing to its Semantics of Business Vocabulary and Business Rules (SBVR).

SBVR (Semantics of Business Vocabulary and Business Rules)

- Adopted standard of OMG intended to be the basis for formal and detailed natural language declarative description of a complex entity, such as a business.
- Formalize complex compliance rules, such as operational rules for an enterprise, security policy, standard compliance, or regulatory compliance rules.
- Defines the vocabulary and rules for documenting the semantics of business vocabularies, business facts, and business rules; as well as an XMI schema for the interchange of business vocabularies and business rules among organizations and between software tools.

Conference participation

- 14 full papers and 7 short papers were selected from a pool of 42 submissions by authors from 22 countries

SBVR – the most frequent topic of the conference

<u>Full papers</u>:
- Generating SQL Queries from SBVR Rules
- Transformation of SBVR Compliant Business Rules to Executable FCL Rules

<u>with linked demos</u>:
- An SBVR to SQL Compiler
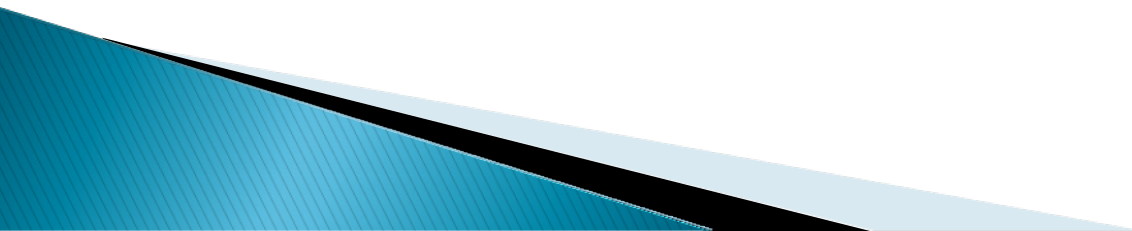- SBVR based Business Contract and Business Rule IDE

<u>Invited demonstration</u>:
- Implementing SBVR with a Practitioner's Perspective

RuleML Challenge

- The goal is to highlight the most advanced applications of rule-based systems
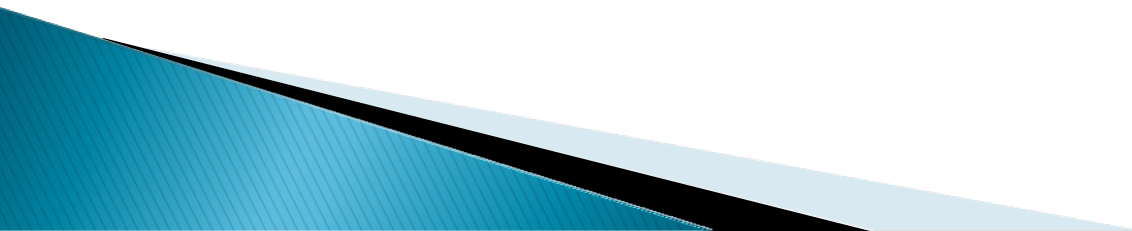
Four main topics:

- Control, Validation and Trust
- Reasoning and semantic web
- Rules extraction and data mining

   (SVBR to SQL, SVBR based Business Contract and Business Rule IDE)
- Visual interface for rules

Demo acceptance criteria

- clear exposition of the objectives, outcomes, benefits for going beyond the state of the art in the application domain with particular regard to demonstrate correctness of answers; (20%)
- demo is encouraged to include modelling and reasoning on temporal or/and geospatial rules in a domain where these parameters are relevant for the outcomes and in any case a good level of expressivity; (20%)
- demo have to demonstrate the results with a concrete sample balancing conciseness and completeness; (20%)
- demo should demonstrate a good level of effectiveness to manage complex rules including geospatial and temporal dimensions by statistical/finding/ benchmarking evaluations; (20%)
- demo should preferably (but not necessarily) be embedded into a web-based or distributed environment and they should pay attention to the end-user interactions in order to provide an adequate interface following the usability parameters in the state of the art for favouring a concrete usage of the application (20%).

Interesting demos

- Application of the SDL Library to Reveal Legal Sanctions for Crime Perpetrators in Selected Economic Crimes: Fraudulent Disbursement and Money Laundering. *Maciej Falkowski, Jaroslaw Bak and Czeslaw Jedrzejek (Poznan University of Technology)*

- The Rule Responder Distributed Reputation Management System for the Semantic Web. *Adrian Paschke (Free University Berlin) and Rehab Alnemr (Hasso Plattner Institute)*

- User-Defined Rules in a Distributed Address Book. *Hannes Mühleisen and Adrian Paschke (Free University Berlin)*

Backstage – Possible cooperation with commercial partner

- Jose C. Lacal, DataStream Content Solutions, LLC (http://www.dscs.com/)
- Interested in data mining with LM and postprocessing with SEWEBAR-CMS
- Current state – we have prepared new installation of SEWEBAR for him, but there is a problem with the company´s strict antiMS policy