

5th International Web Rule Symposium: Research Based and Industry Focused

November 3rd-5th, 2011, Westin Diplomat, Ft. Lauderdale, Florida

Co-located with the International Business Rules Forum

* Informal Arrival Dinner is arranged on Wednesday Nov 2nd, in Crowne Plaza Hollywood Beach Hotel 8.00 pm. The dinner cost is not covered by the fee of the conference.

Day 1: Thursday, Nov. 3rd, 2011

08:00 – 08:30 Registration

08:30 – 09:00 Chairs' Opening Address

09:00 – 10:00 **Keynote: Business Executives Sharing Knowledge with Inference Engines: News from the ONTORULE Project**

Christian de Sainte Marie (ILOG, IBM)

Rules, Semantic Technology, and Cross-Industry Standards

Chair: Benjamin Grosf, Vulcan Inc.

10:00 – 10:30 Design and Implementation of Highly Modular Schemas for XML: Customization of RuleML in Relax NG

Tara Athan and Harold Boley

10:30 – 11:00 Towards RIF-OWL Combination: An Effective Reasoning Technique in Integrating OWL and Negation-free Rules

Mohammad Sadnan Al Manir

11:00 – 11:30 Break

Rules and Automated Reasoning

Chair: Eric Jui-Yi Kao, Stanford University

11:30 – 12:00 **Invited Track Paper:** Consistency and Provenance in Rule Processing

Eric Jui-Yi Kao

12:00 – 12:30 D2R2: Disk-oriented Deductive Reasoning in a RISC-style RDF Engine

Mohamed Yahya and Martin Theobald, Max-Planck Institute for Informatics

12:30 – 13:00 Principles of the SymposiumPlanner Instantiations of Rule Responder

Zhili Zhao, Adrian Paschke, Chaudhry Usman Ali and Harold Boley

13:00 – 14:00 Lunch

Cloud Computing and Rules

Chair: Said Tabet, EMC²

14.00-15.00 **Keynote: Rule-enhanced Domain Models for Cloud Security Governance, Risk and Compliance Management**

Marcus Spies, University of Munch

15.00-15.30 **Invited Track Paper:** Cloud Computing: Enabling Compliance with standards and declarative rule-based frameworks

Said Tabet and Marlin Pohlman, EMC

15:30 – 16:00 Role Assignment in Institutional Clouds for Rule-based Enterprise Management

Jeremy Pitt, Julia Schaumeier and Alexander Artikis

16:00 – 16:30 Break

16:30 – 17:10 **OMG Presentation:** Rules and OMG Standards

Said Tabet, EMC

Chair: Frank Olken, Frank Olken Consulting

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	Vocabularies, Ontologies, and Business Rules I	<i>Chair: Frank Olken, Frank Olken Consulting</i>
17:10 – 17:40	Lexicalized ontology for a business rules management platform: An automotive use case <i>Nouha Omrane, Adeline Nazarenko, Peter Rosina, Sylvie Szulman and Christoph Westphal</i>	
17:40 – 18:10	Representing and Solving Rules-based Decision Models with Constraint Solvers <i>Jacob Feldman</i>	

Day 2: Friday, Nov 4th, 2011

08:00 – 08:30	Registration	
08:30 – 9:30	Keynote: Event-driven Rules: Experiences in CEP <i>Paul Vincent, TIBCO</i>	<i>Chair: Adrian Paschke Free University of Berlin</i>

Rule-Based Event Processing and Reaction Rules

9:30 – 9:55	Invited Track Paper: Standards for Complex Event Processing and Reaction Rules <i>Adrian Paschke, Paul Vincent, Florian Springer</i>	
9:55 – 10:20	Supporting Data Consistency in Concurrent Process Execution with Assurance Points and Invariant Rules <i>Susan Urban, Andrew Courter, Le Gao and Mary Shuman</i>	
10:20 – 10:45	Probabilistic Event Calculus based on Markov Logic Networks <i>Anastasios Skarlatidis, Georgios Paliouras, George Vouros and Alexander Artikis</i>	
10:45 – 11:00	On Applying Temporal Database Concepts to Event Queries <i>Foruhar Ali Shiva and Susan Urban</i> short paper	
11:00 – 11:30	Break	

Clinical Semantic and Rules

*Chair: Frank Olken,
Frank Olken Consulting*

11.30 - 12.00	Invited Track Paper: Standards, Data Models, Ontologies, Rules : Prerequisites for Comprehensive Clinical Practice Guideline <i>Emory Fry, Davide Sottara</i>	
12.00 – 12:30	Event Condition Expectation (ECE-) Rules for Monitoring Observable Systems <i>Stefano Bragaglia, Federico Chesani, Paola Mello, Marco Montali, Davide Sottara and Emory Fry</i>	

12:30 – 13:30 Lunch

RuleML-2011 Challenge

*Chair: Davide Sottara, DEIS,
University of Bologna*

13:30 – 14:30	Keynote: Rules, Tables and Decisions: A Family History Tale <i>Jan Vanthienen, KU Leuven, World Authority on Decision Tables</i>	<i>Chair: Davide Sottara, DEIS, University of Bologna</i>
14:30 – 16:10	RuleML-2011 Challenge Demos	
14:30 – 14:55	The SDL Library: Querying a Relational Database with an Ontology, Rules and the Jess Engine <i>Jaroslaw Bak, Maciej Falkowski and Czeslaw Jedrzejek</i>	

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14:55 – 15:20	SWEETInfo: a Web-Based System for Visualizing and Querying Temporal Data <i>Martin O'Connor and Amar K. Das</i>
15:20 – 15:45	BIOQUERY-ASP: Querying Biomedical Ontologies using Answer Set Programming <i>Esra Erdem, Halit Erdogan and Umut Oztok</i>
15:45 – 16:10	Managing High Disease Risk Factors : a use case in the KMR-II Healthcare Infrastructure <i>Davide Sottara, Emory Fry, Esteban Aliverti, Mauricio Salatino, John Harby, Stefan Killen, Tuyet Nguyen, Mike Wright</i>
16:10 – 16:30	Break
16:30 – 18:40	RuleML-2011 Challenge Demos
16:30 – 16:55	Emergency Services: Process, Rules and Events <i>Mauricio Salatino, Esteban Aliverti and Demian Calcabrina</i>
16:55 – 17:20	Processing of Complex Stock Market Events Using Background Knowledge <i>Kia Teymourian, Malte Rohde and Adrian Paschke</i>
17:20 – 17:45	Combining Rules and Ontologies with Carneades <i>Thomas Gordon</i>
17:45 – 18:10	An SBVR Editor with Highlighting and Auto-completion <i>Pagan Gazzard, Alexandros Marinos and Paul Krause</i>
18:10 – 18:35	Validation with the RuleML Version 1.0 Parameterized Relax NG schema <i>Tara Athan</i>
18:35 – 18:55	SymposiumPlanner: Querying Two Virtual Organization Committees <i>Zhili Zhao, Adrian Paschke, Chaudhry Usman Ali and Harold Boley</i>
19:00 – 19:15	Best Paper Award voting Challenge demos voting
19:30 – 21:30	Conference dinner Best Paper Award assignment Best Demo Award assignment

Day 3: Saturday, Nov 5th, 2011

08:00 – 08:30	Registration
08:30 – 9:10	Invited presentation: Efficient rule and query execution with CLIF++ , <i>Jans Aasman, Franz Inc.</i> <i>Chair: Harold Boley, NRC</i>
	Vocabularies, Ontologies, and Business Rules II <i>Chair: Harold Boley, NRC</i>
9:10 – 10:40	Towards Directly Applied Ontological Constraints in a Semantic Decision Table, <i>Yan Tang</i>
10:40 – 10:55	SWRL-based context awareness for application servers hosting digital services <i>Christophe Gravier, Yves-Gael Billet and Jacques Fayolle, Telecom France</i> <i>short paper</i>
10:55 – 11:10	Applications of Relaxed Safeness in Datalog-Based Policy Languages <i>Moritz Y. Becker and Jason Mackay, Microsoft Research</i> <i>short paper</i>
11.10 - 11.40	Break

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	Vocabularies, Ontologies, and Business Rules III	<i>Chair: Harold Boley, NRC</i>
11:40 – 12:20	Industry presentation: Recent Advances in the SILK Knowledge Representation and its Usage , Benjamin Grosf	
12:20 – 12:50	Extended Rules in Knowledge-based Data Access <i>Jaroslav Bak, Grażyna Brzykcy and Czesław Jedrzejek</i>	
12:50 – 13:05	Knowledgebase Representation Language Interoperation Tool <i>Yevgen Biletskiy, Taylor Osmun and Patrick Thebeau</i> <i>short paper</i>	
13:05 – 14:00	Lunch	
	NIEM and Rules	<i>Chair: David Webber Oracle Corporation</i>
14:00 – 14:30	Invited Track Paper: Understanding NIEM and Rules Needs, <i>David R.R. Webber</i>	
14.30- 15.30	Round table with NIEM community <i>Justin Stekervetz, NIEM PMO</i> <i>Jim Cabral, MTG Management Consultants LLC and chair of OASIS LegalXML</i> <i>Vijay Mehra, Practice Lead at Computech Inc.</i>	
15:30 – 16:00	Break	
	Rules and Norms	<i>Chair: Monica Palmirani, University of Bologna</i>
16:00 – 16:30	Designing for Compliance: Norms and Goals <i>Francesco Olivieri, Guido Governatori, Simone Scannapieco and Matteo Cristani</i>	
16.30 - 17.00	Invited Track Paper: LegalRuleML: XML-Based Rules and Norms <i>Monica Palmirani and Guido Governatori</i>	
17.00 - 18.00	Round table on LegalRuleML	
18.00 - 18.15	Closing Session and RuleML2012@ECAI Announcement	
18:30 – 19:30	RuleML Steering Committee Meeting	