

ICLP 2009

Pasadena, CA, USA

July 14-17, 2009

Conference Program

25th International Conference on Logic Programming



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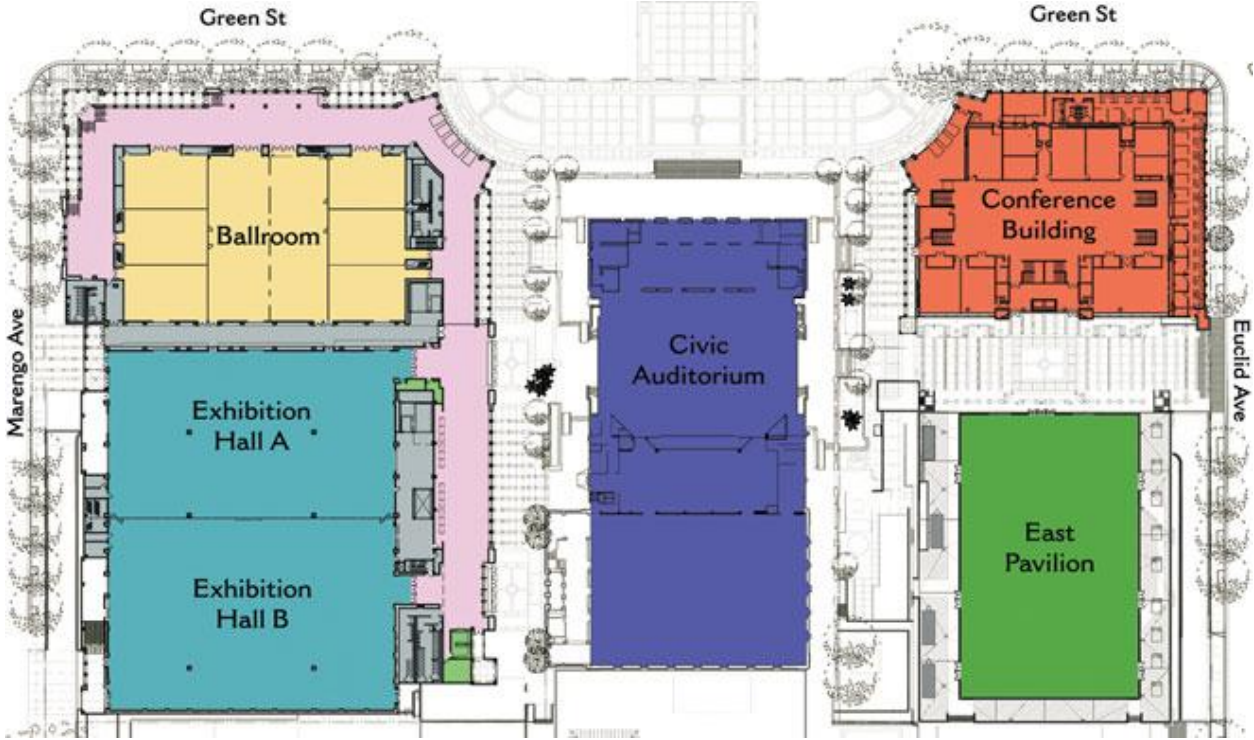
ICLP 2009 Program AT A Glance

| | 14th July | 15th July | 16th July | 17th July |
|----------------|--|--|----------------|------------------------|
| Workshops (am) | WLPE + CICLOPS | CHR | CULP | Prolog Standard |
| 7:30 – 8:30 | <i>BREAKFAST</i> | | | |
| 8:30 - 9:30 | Invited Talk | Invited Talk | Invited Talk | Invited Talk |
| 9:30 - 10:20 | Tech session 1 | Tech session 3 <i>Doctoral Consortium</i> | Tech session 6 | Tech session 9 |
| 10:20 - 10:50 | <i>COFFEE BREAK</i> | | | |
| 10:50 - 12:40 | Tutorial | Tutorial | Tutorial | Tutorial |
| 12:40 - 14:40 | <i>LUNCH BREAK</i> | | | |
| Workshops (pm) | WLPE + CICLOPS & ASPOCP | CHR | CULP | Prolog Standard |
| 14:40 - 15:55 | Tech session 2 | Tech session 4 <i>Doctoral Consortium</i> | Tech session 7 | Tech session 10 |
| 15:55 - 16:25 | <i>COFFEE BREAK</i> | | | |
| 16:25 - 17:55 | Poster Talks | Tech session 5 <i>Doctoral Consortium</i> | Tech session 8 | Tech session 11 |
| 18:00 - ... | ALP General Meeting | Prolog Programming Contest | | |
| 19:30 - ... | | | Banquet | |

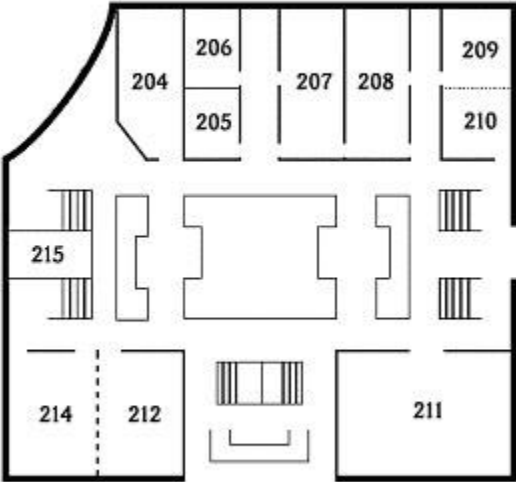
| | Room 104 | Room 105 | Room 106 | Room 107 |
|-----------|---------------------|-----------------|--------------------------------|--------------------------------------|
| July 13th | | | | ICLP'09 Reception (19:30 – 21:00) |
| July 14th | ASPOCP (pm) | WLPE + CICLOPS | ICLP'09 | breakfast coffee break banquet |
| July 15th | Doctoral Consortium | CHR | ICLP'09 Programming Contest | |
| July 16th | | CULP | ICLP'09 | |
| July 17th | | Prolog Standard | ICLP'09 | |

ICLP 2009 Conference Site
Conference Building, Pasadena Convention Center

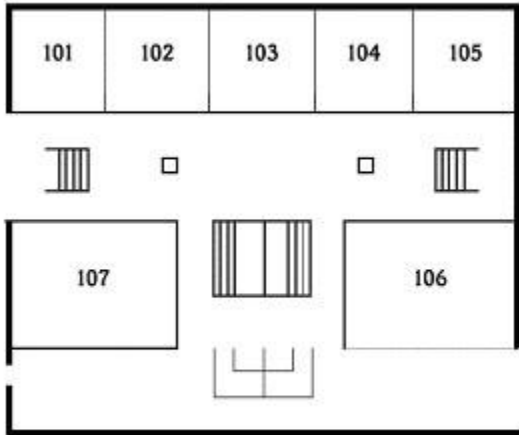
Pasadena Convention Center



Conference Building



Upper Level



Lower Level

Detailed Schedule

Monday, July 13th

19:30-21:00 ICLP'09 reception (Room 107)

Tuesday, July 14th

Co-located Events: WLPE/CICLOPS (all day) and ASPOCP workshops (pm)

07:30-08:30 Breakfast

08:25-08:30 Welcome

08:30-09:30 **Invited Talk:** Chris Mungall (Chair: Patricia Hill)

Experiences using logic programming in bioinformatics

09:30-10:20 **Technical Session 1:** Best Papers (Chair: David Warren)

Matthias Broecheler, Gerardo Simari, and V.S. Subrahmanian:

Using Histograms to Better Answer Queries to Probabilistic Logic Programs

Henning Christiansen and John Gallagher:

Non-discriminating Arguments and their Uses

10:20- 10:50 Coffee break

10:50- 12:40 **Tutorial:** Jan Wielemaker (Chair: Andy King)

Enabling serendipitous search on the Web of Data using Prolog

12:40- 14:40 Lunch break

14:40- 15:55 **Technical Session 2:** Applications (Chair: Thom Frühwirth)

Henning Christiansen and Ole Torp Lasse:

Preprocessing for Optimization of Probabilistic-Logic Models for Sequence Analysis

Phan Minh Dung, Do Duc Hanh, and Phan Minh Thang:

Stabilization of Information Sharing for Queries Answering in Multiagent Systems

Tran Cao Son, Enrico Pontelli, and Chiaki Sakama:

Logic Programming for Multiagent Planning with Negotiation

15:55- 16:25 Coffee break

16:25- 17:55 Short Paper Presentations (Chair: Patricia Hill)

18:00- 19:00 ALP General Meeting

Short Paper Presentations

July 14th, 16:25 – 17:55, Room 106

Each presentation will have a 10 minute slot.

1. Terrance Swift. An Engine for Computing Well-Founded Models
2. Terrance Swift, Alexandre Miguel Pinto, and Luis Moniz Pereira. Incremental Answer Completion in XSB-Prolog
3. Jesus Aranda, Gerard Assayag, Carlos Olarte, Jorge A. Perez, Camilo Rueda, Mauricio Toro, and Frank D. Valencia. An Overview of FORCES: An INRIA Project on Declarative Formalisms for Emergent Systems
4. Jon Sneyers. Optimizing Compilation and Computational Complexity of Constraint Handling Rules - Ph.D. thesis summary
5. Leslie De Koninck. Execution control for Constraint Handling Rules - PhD Summary
6. Leslie De Koninck, Gregory Duck, and Peter Stuckey. Demand Driven Normalisation for ACD Term Rewriting
7. Paolo Pilozzi and Daniel De Schreye. Automating termination proofs for CHR
8. Paolo Pilozzi and Daniel De Schreye. Proving termination by invariance relations
9. Yuliya Lierler and Vladimir Lifschitz. One More Decidable Class of Finitely Ground Programs

Wednesday, July 15th

Co-located Events: Doctoral Consortium (all day), CHR Workshop (9:30 to 15:55)

07:30-08:30 Breakfast

08:30-09:30 **Invited Talk:** Marc Denecker (Chair: Mirek Truszczyński)

A Knowledge Base System project for FO(.)

09:30-10:20 **Technical Session 3:** Implementation (ASP) (Chair: Torsten Schaub)

Alessandro Dal Palu, Agostino Dovier, Enrico Pontelli, and Gianfranco Rossi:
Answer Set Programming with Constraints using Lazy Grounding

Xiaoping Chen, Jianmin Ji, and Fangzhen Lin:
Computing Loops with at Most One External Support Rule for Disjunctive Logic Programs

10:20- 10:50 Coffee break

10:50- 12:40 **Tutorial:** Andy King (Chair: Terrance Swift)

Untangling Reverse Engineering with Logic and Abstraction

12:40- 14:40 Lunch break

14:40- 15:55 **Technical Session 4:** Theory (ASP) (Chair: Esra Erdem)

Minh Dao-Tran, Thomas Eiter, Michael Fink, and Thomas Krennwallner:
Modular Nonmonotonic Logic Programming Revisited

James Delgrande, Torsten Schaub, Hans Tompits, and Stefan Woltran:
Merging Logic Programs under Answer Set Semantics

Mirek Truszczyński:
Reducts of propositional theories, satisfiability relations, and generalizations of semantics of logic programs

15:55- 16:25 Coffee break

16:25- 17:40 **Technical Session 5:** Implementation (Tabling), Analysis (Chair: Joxan Jaffar)

Pablo Chico de Guzmán, Manuel Carro, and Manuel Hermenegildo:
A Tabling Implementation Based on Variables with Multiple Bindings

Jorge Costa, João Raimundo, and Ricardo Rocha :
A Term-Based Global Trie for Tabled Logic Programs

Dean Voets and Daniel De Schreye:
A new approach to non-termination analysis of Logic Programs

18:00- 20:00 Prolog Programming Contest (Chair: Tom Schrijvers)

Thursday, July 16th

Co-located Events: CULP workshop (9:30 to 15:55)

07:30-08:30 Breakfast

08:30-09:30 **Invited Talk:** Paulo Moura (Chair: David Warren)

From Plain Prolog to Logtalk Objects: Effective Code Encapsulation and Reuse

09:30-10:20 **Technical Session 6:** CLP (ASP) (Chair: Agostino Dovier)

Martin Gebser, Max Ostrowski, and Torsten Schaub:
Constraint Answer Set Solving

Martin Gebser, Roland Kaminski, Benjamin Kaufmann, and Torsten Schaub:
On the Implementation of Weight Constraint Rules in Conflict-driven ASP Solvers

10:20- 10:50 Coffee break

10:50- 12:40 **Tutorial:** Mireille Ducassé (Chair: Patricia Hill)

(C)LP tracing and debugging

12:40- 14:40 Lunch break

14:40- 15:55 **Technical Session 7:** System and Tool (Chair: Mireille Ducassé)

Michael Ashley-Rollman, Padmanabhan Pillai, Seth Goldstein, Peter Lee, and Jason Campbell:
Meld: A Language for Programming Large Ensembles of Independently Executing Nodes

Edison Mera, Pedro Lopez-Garcia, and Manuel Hermenegildo:
Integrating Software Testing and Run-Time Checking in an Assertion Verification Framework

Johan Wittocx, Hanne Vlaeminck, and Marc Denecker:
Debugging for Model Expansion

15:55- 16:25 Coffee break

16:25- 17:40 **Technical Session 8:** Application (ASP) (Chair: Hai-Feng Guo)

Torsten Schaub and Sven Thiele:
Metabolic Network Expansion with Answer Set Programming

Michael Thielscher:
Answer Set Programming for Single-Player Games in General Game Playing

Thomas Eiter, Esra Erdem, Halit Erdogan, and Michael Fink:
Finding Similar or Diverse Solutions in Answer Set Programming

19:30-- Banquet

Friday, July 17th

Co-located Events: Prolog Standard workshop

07:30-08:30 Breakfast

08:30-09:30 **Invited Talk:** Taisuke Sato (Chair: Neng-Fa Zhou)

Generative Modeling by PRISM

09:30-10:20 **Technical Session 9:** Implementation (Indexing) (Chair: Ricardo Rocha)

Beata Sarna-Starosta and Tom Schrijvers:

Attributed Data for CHR Indexing

David Vaz, Vítor Santos Costa, and Michel Ferreira:

User Defined Indexing

10:20- 10:50 Coffee break

10:50- 12:40 **Tutorial:** Luc de Raedt (Chair: John Gallagher)

Probabilistic Logic Learning

12:40- 14:40 Lunch break

14:40- 15:55 **Technical Session 10:** CLP, CCP (Chair: Frank Valencia)

Marco Gavanelli, Marco Alberti, and Evelina Lamma:

Integration of abductive reasoning and constraint optimization in SCIFF

Neng-Fa Zhou:

Encoding Table Constraints in CLP(FD) Based on Pair-wise AC

Thomas Hildebrandt and Hugo Andres Lopez:

Types for Secure Pattern Matching with Local Knowledge in Universal Concurrent Constraint Programming

15:55- 16:25 Coffee break

16:25- 17:40 **Technical Session 11:** Probability, Uncertainty (Chair: Enrico Pontelli)

Hui Wan, Benjamin Grosf, Michael Kifer, Paul Fodor, and Senlin Liang:
Logic Programming with Defaults and Argumentation Theories

Rafael Caballero, Mario Rodríguez-Artalejo, and Carlos A. Romero-Díaz:
Qualified Computations in Functional Logic Programming

Steffen Hölldobler and Carroline Kencana Ramli:

Logic Programs under Three-Valued Lukasiewicz Semantics

Invited Talks

Speaker: Chris Mungall

Title: Experiences Using Logic Programming in Bioinformatics

08:30-09:30 Tuesday, July 14th

Abstract: Reverse engineering complex biological systems requires the integration of multiple different databases using detailed background knowledge. Logic programming can provide a means of both performing integrative queries and rule-based inference to account for implicit knowledge.

The Biological Logic Programming toolkit (Blipkit) was developed as a means of doing this kind of data integration. Implemented in SWI-Prolog, Blipkit has models of different aspects of life sciences data, including genes and gene sequences, RNA structures, evolutionary relationships, phenotypes and biological interactions. These can be combined to answer complex questions spanning multiple data sources. Blipkit also has means of integrating with and combining life sciences databases and ontologies.

Speaker: Marc Denecker

Title: A Knowledge Base System Project for FO(.)

08:30-09:30 Wednesday, July 15th

Abstract: We will discuss the development of a Knowledge Base (KB) System, for a rich KB language, equipped with several forms of inference able to solve different sorts of tasks using the same KB. The logic FO(.) used in our KBS project is an extension of classical logic with various language primitives such as inductive definitions, aggregates, arithmetic, etc. It is also a natural integration (and further extension) of classical logic and logic programming, based on the view of a logic program as a definition. We discuss informal and formal semantics of definitions in FO(.) and briefly consider the relationship with other knowledge principles such as coinduction, the closed world assumption and causality and with the LP formalisms ASP, ALP and deductive databases. On the computational level, we will report on current attempts to build finite domain inference systems for model expansion, approximate reasoning, theory debugging and model revision, with special focus on the IDP-system, a model expansion system for FO(.) competitive with the best ASP-solvers.

Speaker: Paulo Moura

Title: From Plain Prolog to Logtalk Objects: Effective Code Encapsulation and Reuse

08:30-09:30 Thursday, July 16th

Abstract: Prolog affords concise, elegant, and clean solutions for many interesting problems, but is not immune to the software engineering challenges of large-scale application development. Code modularization, using modules or objects, is a key feature to keep projects manageable. Because most literature, instruction, and practice focus exclusively on object-oriented languages derived from imperative languages, objects are perceived as alien to logic programming while modules are considered a natural fit. Logtalk is an object-oriented logic programming language that can use most Prolog implementations as a back-end compiler. Logtalk objects are about code encapsulation and reuse, creating natural solutions for a wide range of problems that would be awkward to solve using modules. This talk will begin with the Logtalk design goals, followed by a tutorial on Logtalk programming and application examples. The talk will end with the problems and benefits of developing Logtalk as a portable Prolog application.

Speaker: Taisuke Sato

Title: Generative Modeling by PRISM

08:30-09:30 Friday, July 17th

Abstract: PRISM is a probabilistic extension of Prolog for modeling complex symbolic systems from Bayesian networks to probabilistic grammars. In this talk, I review the basic structure of the PRISM system from semantics to implementation to statistical inference and explain some of the powerful modeling features with examples.

Tutorials

Speaker: Jan Wielemaker

Title: Enabling Serendipitous Search on the Web of Data using Prolog.

10:50-12:40, Tuesday, July 14th

Abstract: The Web of Data, also called the Semantic Web, provides a knowledge representation formalism based on a uniform triple-model: {subject, predicate, object}. A number of more expressive formalisms (e.g., RDFS, OWL, SKOS) are layered on top of the core triple-model. The Web of Data has been developed to represent machine readable knowledge on the internet. Designed to deal with heterogeneous knowledge, the technology underlying the Web of Data is also suitable to unify databases. We use this technology to unify collection information from multiple museums, based on diverse schemas and multiple controlled lists of terms (vocabularies). The resulting knowledge-base is enriched using automatic discovery of mappings between vocabularies. The current challenge is how to provide meaningful services for the end-user based on this knowledge, in particular, how to provide meaningful semantically enriched search?

This tutorial presents the key-components of the Prolog-based ClioPatria toolkit and shows how this infrastructure can be used to explore the opportunities of semantic search. Topics discussed are: reasoning with and editing of RDF models, web-application programming in Prolog combined with AJAX technology and issues when using Prolog for programming 'at large'. Prolog is both an RDF query language and a general purpose programming language, and therefore provides a perfect platform for a Semantic Web research and applications.

Speaker: Andy King

Title: Untangling Reverse Engineering with Logic and Abstraction

10:50-12:40, Wednesday, July 15th

Abstract: Reverse engineering is the filthy end of the security industry. Hackers, whether white or black, search binaries for vulnerabilities. They do not attempt to reverse assembler into C, which is the traditional aspiration in reversing, but aspire merely understand the code to sufficient depth to manufacture an exploit. This talk will show how logic and abstraction can be being applied to support, and partially automate, this process.

Speaker: Mireille Ducassé

Title: (C)LP Tracing and Debugging

10:50-12:40, Thursday, July 16th

Abstract: Since Ehud Shapiro's "Algorithmic debugging", in 1983, there has been a continuous, even if not very abundant, flow of work on tracing and debugging for (constraint) logic programming. The tutorial will present trace production techniques ranging from compiler instrumentations to dedicated meta-interpreters. It will review work on trace analysis, in particular algorithmic, declarative and rational debugging. It will discuss the issue of trace querying and driving. Last but not least, it will describe the latest software engineering research on trace mining.

Throughout the presentation, we will stress the importance of the nature of the trace data used by the techniques. We will show that CLP techniques have inspired a number of work in other communities. We will argue that trace mining techniques could easily be applied to CLP.

Speaker: Luc De Raedt

Title: Probabilistic Logic Learning

10:50-12:40, Friday, July 17th

Abstract: Probabilistic logic learning (PLL) sometimes also called statistical relational learning, addresses one of the central questions of artificial intelligence: the integration of probabilistic reasoning with first order logic representations and machine learning. A rich variety of different formalisms and learning techniques have been developed and they are being applied on applications in network analysis, robotics, bio-informatics, intelligent agents, etc.

This tutorial starts with an introduction to probabilistic representations and machine learning, and then continues with an overview of the state-of-the-art in probabilistic logic learning. We start from classical settings for logic learning (or inductive logic programming) namely learning from entailment, learning from interpretations, and learning from proofs, and show how they can be extended with probabilistic methods. While doing so, we review state-of-the-art probabilistic logic learning approaches.

(The tutorial is, in part, based on the joint work with Kristian Kersting)

Workshops

- **Colloquium on Implementation of Constraint and LOGic Programming Systems (CICLOPS)**

Chairs: Paul Tarau, University of North Texas, USA
Paulo Moura, CRACS - INESC Porto and University of Beira Interior, Portugal
Neng-Fa Zhou, Brooklyn College, USA

- **Workshop on Logic-based Methods in Programming Environments (WLPE)**

Chairs: Rafael Caballero, Universidad Complutense de Madrid, Spain
John Gallagher, University of Roskilde, Denmark

- **Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP)**

Chairs: Wolfgang Faber, University of Calabria, Italy
Joohyung Lee, Arizona State University, USA

- **Workshop on Constraint Handling Rules (CHR)**

Chairs: Frank Raiser, Ulm University, Germany
Jon Sneyers, Katholieke Universiteit Leuven, Belgium

- **Workshop on Commercial Users of Logic Programming (CULP)**

Chair: Tom Schrijvers, Katholieke Universiteit Leuven, Belgium

- **Workshop on Prolog Standard (WG17)**

Chair: Jonathan Hodgson, Saint Joseph's University, USA

CICLOPS + WLPE

July 14th, 2009, Room 105

09:30 - 10:20 Session 1

Ajay Bansal, Richard Min, and Gopal Gupta:
Goal-directed Execution of Answer Set Programs (invited talk)

Ulrich Neumerkel:
Mechanisms for side-effect free I/O (invited talk)

10:20 - 10:50 Coffee break

10:50 - 12:05 Session 2

Terrance Swift:
User Environments for Tabled Prolog: Progress and Open Issues (invited talk)

Hai-Feng Guo, Wen Zheng, and Mahadevan Subramaniam:
L2C2: Logic-based LSC Consistency Checking

Francisco Javier Lopez-Fraguas and Juan Rodriguez-Hortala:
The Full Abstraction Problem for Higher Order Functional-Logic Programs

Francisco Bueno, Jorge Navas, and Manuel Hermenegildo:
Towards Parameterized Regular Type Inference Using Set Constraints

12:40 - 14:40 Lunch break

14:40 - 15:55 Session 3

Neng-Fa Zhou:
Recent Developments in B-Prolog (invited talk)

Theofrastos Mantadelis and Gerda Janssens:
Tabling relevant parts of SLD proofs for ground goals in a probabilistic setting

Quan Phan and Gerda Janssens:
More Precise Region-Based Memory Management for Mercury Programs

15:55 - 16:25 Coffee break

16:25 - 17:55 Session 4

Dragan Ivanović, José F. Morales, Manuel Carro, and Manuel Hermenegildo:
Towards Structured State Threading in Prolog

Inês Dutra:
To ILP or not to ILP (invited talk)

Neda Saeedloei and Gopal Gupta:
*Verifying Complex Continuous Real-Time Systems with Coinductive CLP(R)
(invited talk)*

ASPOCP

July 14th, 2009, Room 104

14:40 - 15:45 **Session 1**

Opening

Matti Järvisalo, Emilia Oikarinen, Tomi Janhunen, and Ilkka Niemelä:
A Module-Based Framework for Multi-Language Constraint Modeling

Marcello Balduccini:
Representing Constraint Satisfaction Problems in Answer Set Programming

15:55 - 16:25 Coffee break

16:25 - 17:55 **Session 2**

Ping Hou and Marc Denecker:
A Logic of Fixpoint Definitions

Yisong Wang, Jia-Huai You, and Mingyi Zhang:
Embedding Functions into Disjunctive Logic Programs

Marcello Balduccini:
A General Method to Solve Complex Problems by Combining Multiple Answer Set Programs

CHR

July 15th, 2009, Room 105

09:30 - 10:20 **Invited talk**

Thom Frühwirth:

First steps towards a lingua franca for computer science: Rule-based Approaches in CHR

10:20 - 10:50 Coffee break

10:50 - 12:05 **Session 1**

Frank Raiser and Thom Frühwirth:

Operational Equivalence of Graph Transformation Systems

Frank Raiser, Hariolf Betz, and Thom Frühwirth:

Equivalence of CHR States Revisited

Peter Van Weert, Leslie De Koninck, and Jon Sneyers:

*A Proposal for a Next Generation of CHR*12:05 - 12:40 Discussion Session: *the future of CHR research*

12:40 - 14:40 Lunch break

14:40 - 15:55 **Session 2**

Thierry Martinez:

On connections between CHR and LCC

Jon Sneyers, Wannes Meert, and Joost Vennekens:

CHRiSM: Chance Rules induce Statistical Models

Marcos Aurelio Almeida da Silva and Jacques Robin:

Extending CHR with objects under a variety of inheritance and world-closure assumptions

CULP

July 16th, 2009, Room 105

9:30 – 10:20: Session 1

Mike Elston, Scientific Software and Systems Ltd:

From Prolog to Porsche: experiences developing a large scale financial application in Prolog

Terrance Swift, CENTRIA:

The logic of programming in Prolog: then and now

10:20 – 10:50: Coffee break

10:50 – 12:40: Session 2

Molham Aref, LogicBlox:

Logic for enterprise decision automation applications

Lindsey Spratt, Ontology Works Inc:

The Ontology Works deductive database system

David Warren, XSB Inc:

From data to knowledge

12:05 – 12:40: Discussion

12:40 – 14:40: Lunch break

14:40 – 15:55: Session 3

Hai-Feng Guo, Logical Software Solutions:

TransBraille: completely automatic backtranslation of braille mathematics documents

Benjamin Grosf, Vulcan:

Hyper logic programs in SILK for business and science: an overview

Walter Wilson, SDA Inc:

An automated targeting system for US customs and border patrol inspectors

Prolog Standard (WG17)

July 17th, 2009, Room 105

WG17 will be discussing the final drafts of the documents on:

- DCGs
- Global variables

Doctoral Consortium

July 15th, 2009, Room 104

Each presentation will be allocated 8 minutes, followed by 2 minutes for discussion.

Session 1: 9:30 - 10:20

- Alessio Paolucci, *Intelligent Natural Language Processing Techniques and Tools*
- Christian Theil Have, *Logic-statistical models with constraints for biosequence analysis*
- Marco Bottalico, *Languages for Biological Reactions*
- Paul Fodor, *Tabled Evaluation for Transaction Logic Programs*

Session 2: 14:40 - 15:55

- Paolo Pilozzi, *Termination of CHR*
- Frank Raiser, *Analysing Graph Transformation Systems using Extended Methods from Constraint Handling Rules*
- Dean Voets, *Non-termination analysis of Logic Programs*
- Chendong Li, *Extending Elimination Algorithms for Functional Constraints to Solve Two Integer Variables per Inequality*
- Paola Campi, *Capturing fair computations on Concurrent Constraint Language*
- Michael Ashley-Rollman, *Logic Programming for Massively Distributed Systems*
- Michael De Rosa, *Locally Distributed Predicates: A Programming Facility for Distributed State Detection*

Session 3: 16:25 - 17:55

- Jianmin Ji, *A Cognitive Architecture for a Service Robot: an Answer Set Programming Approach*
- Daniela Incelezan, *Language ALM*
- Yana Todorova, *Answering Questions from Natural Language using A-Prolog*
- Gerardo Simari, *Stochastic Reasoning with Models of Agent Behavior*
- Hui Wan, *Belief Logic Programming: Quantitative Reasoning for Correlation of Evidence*
- Mantas Simkus, *Fusion of Logic Programming and Description Logics*
- Gayathri Namasivayam, *Study of Random Logic Programs*