



Symposium on Abstraction, Reformulation and Approximation  
Tuesday July 26th to Friday July 29th  
<http://sara2005.limbio-paris13.org/>

## Tuesday July 26th

### 19.00-21.00 DINNER

*included in the accommodation and general fees*

## Wednesday July 27th

### 08.15-09.30 REGISTRATION

09.30-09.50 *Cochair and Organizer remarks, announcements, logistics, etc.*

### 09.50-10.30 Opening talk

"What is abstraction ? A cross-disciplinary comparison"

*by Lorenza Saitta*

### 10.30-11.00 Coffee Break

### 11.00-13.00 Technical Session 1

Transforming and Refining Abstract Constraint Specifications

*Alan M. Frisch, Brahim Hnich, Ian Miguel, Barbara M. Smith, Toby Walsh*

Implementing an Abstraction Framework for Soft Constraints

*Alberto Delgado, Jorge Andrés Pérez, Camilo Rueda*

A Specialised Binary Constraint for the Stable Marriage Problem

*Chris Unsworth, Patrick Prosser*

Compositional Derivation of Symmetries for Constraint Satisfaction

*Pascal Van Hentenryck, Pierre Flener, Justin Pearson*

### 13.00-14.30 Lunch

**14.30-15.30 Invited Speaker**

"Designing Views to Efficiently Answer real SQL Queries"

*Rada CHIRKOVA (Univ. North Carolina, Raleigh, USA).*

**15.30-16h15 Overview of Extended Abstract Presentations**

Solving the 24 Puzzle with Instance Dependent Pattern Databases

*Ariel Felner, Amir Adler*

Combining Feature Selection and Feature Construction to Improve Concept Learning

*Blaise Hanczar*

A Qualitative Spatio-temporal Abstraction of a Disaster Space

*Zina M. Ibrahim, Ahmed Y. Tawfik*

The Cruncher: Automatic Concept Formation Using Minimum Description Length

*Marc Pickett, Tim Oates*

Experiments with Multiple Abstraction Heuristics in Symbolic Verif.

*Kairong Qian, Albert Nymeyer, Steven Susanto*

Probabilistic Abstraction of Uncertain Temporal Data for Multiple Subjects

*Michael Ramati, Yuval Shahar*

Learning Classifiers Using Hierarchically Structured Class Taxonomies

*Feihong Wu, Jun Zhang, Vasant Honavar*

Feature-Discovering Approximate Value Iteration Methods

*Jia-Hong Wu, Robert Givan*

**16.15-16-45 Coffee break**

**16.45-19.00 Poster session / \*Reception\***

**19.00-21.00 Dinner**

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## Thursday July 28th

Multinomial Event Model Based Abstraction for Sequence and Text Classification

*Dae-Ki Kang, Jun Zhang, Adrian Silvescu, Vasant Honavar*

Petri Net Reachability Checking Is Polynomial with Optimal Abstraction Hierarchies

*Peep Kungas*

Function Approximation via Tile Coding: Automating Parameter Choice

*Alexander A. Sherstov, Peter Stone*

**13.00-14.30 Lunch**

**14.30-15.30 Invited Speaker**

"Abstract Representation in Painting and Computing"

*Robert ZIMMER (Goldsmiths College University of London, England).*

**15.30-16.30 Technical Session 3**

Synthesizing Plans for Multiple Domains

*Abdelbaki Bouguerra, Lars Karlsson*

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**08.45-09.00 Chairmen's remarks, announcements, logistics, etc.**

**09.00-10.00 Invited Speaker**

"The Multi-depot Periodic Vehicle Routing Problem"

*Aristide MINGOZZI (Univ. Bologna, Italy)*

**10.00-10.30 Coffee break**

**10-30-13-00 Technical Session 2**

Learning Regular Expressions from Noisy Sequences

*Ugo Galassi, Attilio Giordana*

From Factorial and Hierarchical HMM to Bayesian Network: A Representation Change Algorithm

*Sylvain Gelly, Nicolas Bredeche, Michèle Sebag*

## Friday July 29th

Creating Better Abstract Operators

*Jonathan Teutenberg, Mike Barley*

**16.30-16.45 Coffee break**

**16h45-17.45 Technical Session 4**

Hierarchical Heuristic Search Revisited

*Robert C. Holte, Jeffery Grajkowski, Brian Tanner*

Generating Admissible Heuristics by Abstraction for Search in Stochastic Domains

*Natalia Beliaeva, Shlomo Zilberstein*

**19.00-21.00 Dinner**

**21.00-22.00 Short CP meeting**

**9:00-10:00 Technical Session 5**

Detecting and Breaking Symmetries by Reasoning on Problem Specifications

*Toni Mancini, Marco Cadoli*

Verifying the Incorrectness of Programs and Automata

*Scot Anderson, Peter Revesz*

**10.30 Coffee break**

**10:30-11:30 Technical Session 6**

Abstract Policy Evaluation for Reactive Agents

*Krysia Broda, Christopher John Hogger*

Approximate Model-Based Diagnosis Using Preference-Based Compilation

*Gregory Provan*

**12.00-13.30 Lunch**

*...Departure for IJCAI site.*

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