

AIPs 02 Technical Program

Thursday April 25 (Saint Exupery)	
8:15-8:30	Welcome coffee
8:50-9:00 – Welcome address	
9:00-10:00 – Invited Talk: Bernhard Nebel The Philosophical Soccer Player Chair : Joachim Hertzberg	
10:00-10:30	Coffee break
10:30-12:30 — Session AIPs/KR 1: Cognitive Robotics Chair : Enrico Giunchiglia	
Reasoning about Actions and Planning in LTL Action Theories, * <i>Diego Calvanese, Giuseppe De Giacomo, Moshe Y. Vardi</i>	
On the Semantics of Deliberation in IndiGold – From Theory to Implementation, * <i>Giuseppe De Giacomo, Yves Lespérance, Hector J. Levesque, Sebastian Sardina</i>	
Plan Representation for Robotic Agents. <i>Michael Beetz</i>	
A Knowledge-Based Approach to Planning with Incomplete Information and Sensing, # <i>Ronald P. A. Petrick, Fahiem Bacchus</i>	
12:30-14:00	Lunch at the Novotel Restaurant
14:00-15:30 — Session AIPs/KR 2: Extended representations Chair : Patrick Doherty	
Actions and Other Events in Situation Calculus, * <i>John McCarthy</i>	
Universal Quantification in a Constraint-Based Planner. <i>Keith Golden, Jeremy Frank</i>	
The Logic of Reachability. <i>David E. Smith, Ari K. Jonsson</i>	
15:30-16:00	Coffee break
16:00-17:30 — Session AIPs/KR 3: Planning in non-deterministic Domains Chair : Fahiem Bacchus	
Improving Heuristics for Planning as Search in Belief Space. <i>Piergiorgio Bertoli, Alessandro Cimatti</i>	
Backward Plan Construction for Planning with Partial Observability. <i>Jussi T. Rintanen</i>	
Fragment-based Conformant Planning. <i>James A. Koenig, P. Pandurang Nayak, David E. Smith</i>	
17:30-18:00 — AIPs Planning Competition	
The third International Planning Competition : Temporal and Metric Planning. <i>Maria Fox, Derek Long</i>	
18:15 – Departure for Fondation Bernberg Museum : 30 min. nice walk, bus available for non walkers or if raining	
19:00-21:00 – Visit of the Fondation Bernberg Museum and Buffet, Hôtel d’Assezat, Place d’Assezat	

+ KR Papers
Papers (1) through (9) are detailed in the Interactive Session S7
Best Paper Awards

Friday April 26 (Cassiopee)	
8:15-9:00	Welcome coffee
9:00-10:30 - Session 4: Learning & Domain Analysis Chair : Manuela Veloso	
CaMeL: Learning Method Preconditions for HTN Planning. <i>Ighamri Okhray, Dana Nau, Hector Munoz-Avila, David W. Ahn</i>	
On the Identification and Use of Hierarchical Resources in Planning and Scheduling. <i>Bernd Schattberg, Susanne Biundo</i>	
On Control Knowledge Acquisition by Exploiting Human-Computer Interaction ⁽¹⁾ . <i>Ricardo Aler, Daniel Borrajo</i>	
An Interactive Method for Inducing Operator Descriptions ⁽²⁾ . <i>T. L. McCluskey, N.E. Richardson, R.M. Simpson</i>	
Extending the Exploitation of Symmetries in Planning ⁽³⁾ . <i>Maria Fox, Derek Long</i>	
10:30-11:00	Coffee break
11:00-12:30 - Session 5: Scheduling & Heuristics Chair : Kanna Rajan	
Filtering Algorithms for Batch Processing with Sequence Dependent Setup Times. <i>Petr Vilim, Roman Barták</i>	
Constraint Model-based Planning and Scheduling with Multiple Resources and Complex Collaboration Schema. <i>Christophe Guetier, Bertrand Alfo, Vincent Legendre, Jean-Clair Poncet, Nelly Strady-Léclubin</i>	
Symbolic Pattern Databases in Heuristic Search Planning ⁽⁴⁾ . <i>Stefan Edelkamp</i>	
Heuristic Search-Based Replanning ⁽⁵⁾ . <i>Sven Koenig, David Furst, Colin Bauer</i>	
A Plan-Based Personalized Cognitive Orthotic ⁽⁶⁾ . <i>Colleen E. McCarthy, Martha E. Pollack</i>	
12:30-14:00	Lunch at the Novotel Restaurant
14:00-15:00 - Invited Talk: Jan Karel Lenstra Local Search in Combinatorial Optimization Chair : Malik Ghallab	
15:00-16:00 - Session 6: Planning with Incomplete Information Chair : Piergiorgio Bertoli	
Execution Monitoring with Quantitative Temporal Bayesian Networks. <i>Dirk Colby, Bart Peintner, Martha E. Pollack</i>	
Faster Probabilistic Planning Through More Efficient Stochastic Satisfiability Problem Encodings ⁽⁷⁾ . <i>Stephen W. Majercik, Andrew P. Ruszsek</i>	
Estimated-Regression Planning for Interactions with Web Services ⁽⁸⁾ . <i>Drew V. McDermott</i>	
Speculative Execution for Information Gathering Plans ⁽⁹⁾ . <i>Greg Borst, Craig A. Knoblock</i>	
16:00-18:00 - Session 7: Interactive Session Demonstrations and/or poster presentations of papers (1) through (9)	16:00-16:30 - Coffee break
18:00-19:00 – Awards and Scholarships Recipients	
AIPs 02 Chairs	Cocktail
AIPs Planning Competition Results and analysis. <i>Maria Fox, Derek Long</i>	
19:00 – Departure for “Les Caves de la Maréchale” 20 min. walk	
19:45-22:00 : Banquet at “Les Caves de la Maréchale”	

Saturday April 27 (Cassiopee)	
8:15-9:00	Welcome coffee
9:00-10:30 - Session 8: Analysis & Optimization of Plans Chair : Sam Steel	
Analyzing Plans with Conditional Effects. <i>Eliy Winner, Manuela Veloso</i>	
LPG: A Planner Based on Local Search for Planning Graphs with Action Costs. <i>Alfonso Gerevini, Ivan Serina</i>	
Planning Graph-based Heuristics for Cost-sensitive Temporal Planning. <i>Minh B. Do, Subbarao Kambarhampati</i>	
10:30-11:00	Coffee break
11:00-12:30 - Session 9: Complexity & Planning Chair : Jörg Hoffmann	
Decidability and Undecidability Results for Planning with Numerical State Variables. <i>Malte Helmert</i>	
Structure and Complexity in Planning with Unary Operators. <i>Carmel Domshlak, Ronen I. Brafman</i>	
On the Role of Ground Actions in Refinement Planning. <i>Hakan L. S. Younes, Reid G. Simmons</i>	
12:30-14:00	Lunch at the Novotel Restaurant
14:00-15:00 - Invited Talk: Martha Pollack Plan-Management Assistants: From Homework Helpers to Cognitive Orthotics Chair : Paolo Traverso	
15:00-16:00 - Session 10: Distributed Planning & Execution Chair : Craig Knoblock	
Active Coordination of Distributed Human Planners. <i>Karen L. Myers, Peter A. Jarvis, Thomas J. Lee</i>	
Planning for Distributed Execution Through Use of Probabilistic Opponent Models, # <i>Patrick Riley, Manuela Veloso</i>	
16:00-16:30	Coffee break
16:30-18:00 - Session 11: Replanning & Domain Analysis Chair : Susanne Biundo	
The FAR-OFF system: A Heuristic Search Case-Based Planning. <i>Flavio Tonidandel, Márcio Rillo</i>	
Applying Domain Analysis Techniques for Domain-Dependent Control in TALPlanner. <i>Jonas Kvarnström</i>	
Local Search Topology in Planning Benchmarks: A Theoretical Analysis. <i>Jörg Hoffmann</i>	

Sunday April 28 : 10:00-12:00
Guided Visit of Historical Toulouse, offered by AIPs