

ICAPS 2011 MAIN CONFERENCE AT A GLANCE

Welcome Reception is on Monday, June 13, from 19:30–22:00, at the Historisches Kaufhaus (next to the Minster).

Tuesday, June 14

08:45–09:00	Opening Remarks Hall: Aula
09:00–10:00	Invited Talk: Jason D. Williams Hall: Aula
10:00–10:30	Coffee Break
10:30–12:10	Ia: Heuristics for Planning Hall: HS 1199 Ib: Markov Decision Processes Hall: Aula
12:10–14:00	Lunch Break
14:00–15:35	Ila: Plan Search Engineering Hall: HS 1199 Ilb: Generalized Planning Hall: Aula
15:35–16:05	Coffee Break
16:05–17:30	Results IPC Hall: HS 1199
17:30–20:00 (open end)	DC Posters & System Demos Hall: Aula and Prometheus

Wednesday, June 15

09:00–10:00	Invited Talk: Pascal Van Hentenryck Hall: Aula
10:00–10:30	Coffee Break
10:30–12:10	IIla: Applications I Hall: HS 1199 IIlb: Frontiers in Planning Hall: Aula
12:10–14:00	Lunch Break
14:00–15:40	IV: Best Papers Hall: Aula
15:40–16:10	Coffee Break
16:10–18:10	Community Meeting (includes Best Dissertation Talk and Awards Ceremony) Hall: Aula
20:00	Banquet

Thursday, June 16

09:00–10:00	Invited Talk: Michael P. Wellman Hall: Aula
10:00–10:30	Coffee Break
10:30–12:15	Va: Applications II Hall: HS 1199 Vb: Limits and Possibilities Hall: Aula
12:15–14:00	Lunch Break
14:00–15:15	Vla: Automated Scheduling Hall: HS 1199 Vlb: Incomplete Information Hall: Aula
15:15–15:45	Coffee Break
15:45–16:25	VIIa: Real-Time Planning Hall: HS 1199 VIIb: Applications III Hall: Aula
16:25–16:30	Closing Remarks Hall: Aula

Tuesday, June 14, 2011, AM

08:45-09:00	Opening Remarks Hall: Aula	
09:00-10:00	Invited Talk: Spoken Dialog Systems as an Application of Planning under Uncertainty Jason D. Williams Hall: Aula Session Chair: Stefan Edelkamp	
10:00-10:30	Coffee Break	
10:30-12:10	Ia: Heuristics for Planning Hall: HS 1199 Session Chair: Subbarao Kambhampati	Ib: Markov Decision Processes Hall: Aula Session Chair: Sylvie Thiébaux
	Where Ignoring Delete Lists Works, Part II: Causal Graphs Jörg Hoffmann	Heuristic Search for Generalized Stochastic Shortest Path MDPs Andrey Kolobov, Mausam, Daniel S. Weld, Héctor Geffner
	When Optimal is Just Not Good Enough: Learning Fast Informative Action Cost Partitionings Erez Karpas, Michael Katz, Shaul Markovitch	Efficient Policy Construction for MDPs Represented in Probabilistic PDDL Boris Lesner, Bruno Zanuttini
	Heuristics for Planning with SAT and Expressive Action Definitions Jussi Rintanen	Closing the Gap: Improved Bounds on Optimal POMDP Solutions Pascal Poupart, Kee-Eung Kim, Dongho Kim
	LPRPG-P: Relaxed Plan Heuristics for Planning with Preferences Amanda Coles, Andrew Coles	Markov Decision Processes with Ordinal Rewards: Reference Point-Based Preferences Paul Weng
12:10-14:00	Lunch Break (individual, no organized lunch provided)	

Tuesday, June 14, 2011, PM

14:00-15:35	IIa: Plan Search Engineering Hall: HS 1199 Session Chair: Patrik Haslum <i>Dynamic State-Space Partitioning in External-Memory Graph Search</i> Rong Zhou, Eric A. Hansen <i>Exploiting the Computational Power of the Graphics Card: Optimal State Space Planning on the GPU</i> Damian Sulewski, Stefan Edelkamp, Peter Kissmann <i>Distributed Control of Situated Assistance in Large Domains with Many Tasks</i> Jesse Hoey, Marek Grzes <i>Abstraction Heuristics Extended with Counting Abstractions</i> Blai Bonet (short talk) IIb: Generalized Planning Hall: Aula Session Chair: Sheila McIlraith <i>Scaling Up Multiagent Planning: A Best-Response Approach</i> Anders Jonsson, Michael Rovatsos <i>Planning for Loosely Coupled Agents using Partial Order Forward-Chaining</i> Jonas Kvarnström <i>Directed Search for Generalized Plans Using Classical Planners</i> Siddharth Srivastava, Neil Immerman, Shlomo Zilberstein, Tianjiao Zhang <i>An Effective Approach to Realizing Planning Programs</i> Alfonso E. Gerevini, Fabio Patrizi, Alessandro Saetti (short talk)
15:35-16:05	Coffee Break Results IPC Hall: HS 1199 Session Chair: Ángel García Olaya <i>Uncertainty Competition</i> Scott Sanner, Sungwook Yoon <i>Deterministic Competition</i> Ángel García Olaya, Carlos Linares López, Sergio Jiménez Celorrio <i>Learning Competition</i> Sergio Jiménez Celorrio, Amanda Coles, Andrew Coles
16:05-16:30	
16:30-17:10	
17:10-17:30	
17:30-20:00 (open end)	Doctoral Consortium Posters & System Demos Hall: Aula and Prometheus Light appetizers and drinks will be served during the posters and system demos session.

Wednesday, June 15, 2011, AM

09:00-10:00

Invited Talk: *Last-Mile Disaster Preparedness and Recovery*

Pascal Van Hentenryck

Hall: Aula

Session Chair: Fahiem Bacchus

10:00-10:30

Coffee Break

10:30-12:10

IIIa: Applications I

Room: HS 1199

Session Chair: Scott Sanner

IIIb: Frontiers in Planning

Hall: Aula

Session Chair: David Smith

Cost-Sensitive Concurrent Planning under Duration

Uncertainty for Service-Level Agreements

Amanda Coles, Andrew Coles, Allan Clark, Stephen Gilmore

Learning Inadmissible Heuristics during Search

Jordan T. Thayer, Austin Dionne, Wheeler Ruml

Online Planning for a Material Control System for

Liquid Crystal Display Manufacturing

Minh Do, Kazumichi Okajima, Serdar Uckun,

Fumio Hasegawa, Yukihiro Kawano, Koji Tanaka,

Lara Crawford, Ying Zhang, Aki Ohashi

Ensemble Monte-Carlo Planning:

An Empirical Study

Alan Fern, Paul Lewis

Planning Multi-Modal Transportation Problems

José E. Flórez, Alvaro Torralba Arias de Reyna, Javier García,

Carlos Linares López, Ángel García Olaya, Daniel Borrajo

Effective Heuristics and Belief Tracking for

Planning with Incomplete Information

Alexandre Albore, Miquel Ramírez, Héctor Geffner

A Path Planning Algorithm for an AUV

Guided with Homotopy Classes

Emili Hernandez, Marc Carreras, Pere Ridao

Searching for Plans with Carefully Designed Probes

Nir Lipovetzky, Héctor Geffner

12:10-14:00

Lunch Break (individual, no organized lunch provided)

14:00-15:40

IV: Best Papers

Hall: Aula

Session Chair: Malte Helmert

Automatic Construction of Efficient Multiple Battery Usage Policies

Maria Fox, Derek Long, Daniele Magazzeni

(best paper)

Computing All-Pairs Shortest Paths by Leveraging Low Treewidth

Léon Planken, Mathijs de Weerd, Roman van der Krogt

(honorable mention for best student paper)

Trade-Offs in Sampling-Based Adversarial Planning

Raghuram Ramanujan, Bart Selman

(honorable mention for best student paper)

Planning to Perceive: Exploiting Mobility For Robust Object Detection

Javier Velez, Garrett Hemann, Albert S. Huang, Ingmar Posner, Nicholas Roy

(best student paper)

15:40-16:10

Coffee Break

16:10-18:10

Community Meeting

(includes Best Dissertation Talk and Awards Ceremony)

Hall: Aula

Session Chair: Shlomo Zilberstein

20:00

Banquet

Thursday, June 16, 2011, AM

09:00-10:00

Invited Talk: *Empirical Game-Theoretic Analysis and the Behavior of Software Agents*
Michael P. Wellman
Hall: Aula
Session Chair: Carmel Domshlak

10:00-10:30

Coffee Break

10:30-12:15

Va: Applications II
Hall: HS 1199
Session Chair: Maria Fox

Vb: Limits and Possibilities
Hall: Aula
Session Chair: Jörg Hoffmann

Cross-Domain Action-Model Acquisition for Planning Via Web Search
Hankz Hankui Zhuo, Qiang Yang, Rong Pan, Lei Li

Limits for Compact Representations of Plans
Christer Bäckström, Peter Jonsson

Potential Search: A Bounded-Cost Search Algorithm
Roni Stern, Rami Puzis, Ariel Felner

Automatic Polytme Reductions of NP Problems into a Fragment of STRIPS
Aldo Porco, Alejandro Machado, Blai Bonet

Visual Programming of Plan Dynamics Using Constraints and Landmarks
Julie Porteous, Jonathan Teutenberg, David Pizzi, Marc Cavazza

A Complete Algorithm for Generating Landmarks
Blai Bonet, Julio Castillo (short talk)

The Multi-Round Balanced Traveling Tournament Problem
Richard Hoshino, Ken-ichi Kawarabayashi

A Polynomial All Outcome Determinization for Probabilistic Planning
Thomas Keller, Patrick Eyerich (short talk)

Sample-Based Planning for Continuous Action Markov Decision Processes
Chris Mansley, Ari Weinstein, Michael L. Littman (short talk)

12:15-14:00

Lunch Break (individual, no organized lunch provided)

Thursday, June 16, 2011, PM

14:00-15:15	Vla: Automated Scheduling Hall: HS 1199 Session Chair: Daniel Borrajo <i>Scheduling an Aircraft Repair Shop</i> Maliheh Aramon Bajestani, J. Christopher Beck <i>Scalable Scheduling for Hardware-Accelerated Functional Verification</i> Michael D. Moffitt, Gernot E. Günther <i>Theoretical Aspects of Scheduling Coupled-Tasks in the Presence of Compatibility Graph</i> Gilles Simonin, Rodolphe Giroudeau, Jean-Claude König, Benoit Darties Vlb: Incomplete Information Hall: Aula Session Chair: Pascal Poupart <i>Planning and Acting in Incomplete Domains</i> Christopher Weber, Daniel Bryce <i>Contingent Planning as AND/OR Forward Search with Disjunctive Representation</i> Son Thanh To, Tran Cao Son, Enrico Pontelli <i>Generalised Domain Model Acquisition from Action Traces</i> Stephen Cresswell, Peter Gregory
15:15-15:45	Coffee Break
15:45-16:25	VIIa: Real-Time Planning Hall: HS 1199 Session Chair: J. Christopher Beck <i>Partial-Order Support-Link Scheduling</i> Debdeep Banerjee, Patrik Haslum (short talk) <i>Fast Subgoaling for Pathfinding Via Real-Time Search</i> Carlos Hernández, Jorge A. Baier (short talk) VIIb: Applications III Hall: Aula Session Chair: Gabriele Röger <i>The Minimal Seed Set Problem</i> Avitan Gefen, Ronen I. Brafman (short talk) <i>Planning Problems for Social Robots</i> Gian Diego Tipaldi, Kai O. Arras (short talk)
16:25-16:30	Closing Remarks Hall: Aula