

Heuristics for Domain-independent Planning (HDIP)

Organizers: Alan Fern, Patrik Haslum, Jörg Hoffmann, Michael Katz

Date and Location: June 12, 2011, Hall 101-00-026 Computer Science Campus

08:50-09:00

Welcome

Heuristics I

09:00-09:30

*Heuristics with Choice Variables:
Bridging the Gap between Planning and Graphical Models*
Emil Keyder, Miquel Ramirez, Hector Geffner

09:30-10:00

Landmark-Aware Strategies for Hierarchical Planning
Mohamed Elkawagy, Pascal Bercher, Bernd Schattenberg, Susanne Biundo

10:00-10:30

*Computing Perfect Heuristics in Polynomial Time:
On Bisimulation and Merge-and-Shrink Abstractions in Optimal Planning*
Raz Nissim, Jörg Hoffmann, Malte Helmert

Coffee Break

Heuristics II

11:00-11:30

Incremental Lower Bounds for Additive Cost Planning Problems
Patrik Haslum, John Slaney, Sylvie Thiebaux

11:30-12:30

Invited Talk: *Learning Search Heuristics*
Alan Fern

Lunch Break

Search I

14:00-14:30

Living on the Edge: Safe Search with Unsafe Heuristics
Erez Karpas, Carmel Domshlak

14:30-15:00

Enhancing Search for Satisficing Temporal Planning with Objective-driven Decisions
J. Benton, Patrick Eyerich, Subbarao Kambhampati

15:00-15:30

Cost Based Satisficing Search Considered Harmful
William Cushing, J. Benton, Subbarao Kambhampati

Coffee Break

Search II

16:00-16:30

*Planning with SAT, Admissible Heuristics and A**
Jussi Rintanen

16:30-17:00

Exploiting Problem Symmetries in State-Based Planners
Nir Pochter, Aviv Zohar, Jeffrey Rosenschein

17:00-17:30

On Satisficing Planning with Admissible Heuristics
Roei Bahumi, Carmel Domshlak, Michael Katz