

Planners

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PAH (Planning and Games)

IPC

International Planning Competition

- ▶ 1998, 2000, 2002, 2004, 2006, 2008, 2011, 2014,... 2017?
- ▶ <http://www.icaps-conference.org/index.php/Main/Competitions>

Planners

Sub-optimal / Satisficing

- ▶ FF (Fast Forward, 2001)
 - ▶ Forward-chaining heuristic state space search
 - ▶ Enforced hill-climbing / Breadth-first search
 - ▶ FF heuristic (relaxation)
- ▶ FD-fdss (Fast Downward stone soup, 2006)
 - ▶ MPT, several search strategies, several heuristics
 - ▶ Automatic configuration
- ▶ Lama (2009,2011)
 - ▶ Weighted A*
 - ▶ Multi-heuristic search (FF, Landmarks)
 - ▶ (inadmissible)

Planners (2)

Sub-optimal / Satisficing

- ▶ PROBE (2011)
 - ▶ GBFS + relaxation heuristic (h_{add})
 - ▶ From each state a greedy probes with highly informed heuristics
- ▶ Mercury (2014)
 - ▶ GBFS + Red-black relaxation heuristic
- ▶ yahsp3 (2014)
 - ▶ Heuristic search with lookahead using relaxed plans
 - ▶ Not on FD codebase

Planners (3)

Optimal

- ▶ FD-ms (2011)
 - ▶ A*
 - ▶ Merge&Shrink abstraction heuristic
- ▶ FD-lmcut (2011)
 - ▶ A*
 - ▶ LM-Cut landmark heuristic
- ▶ SymBA* (2014)
 - ▶ A* in BDD (binary decision diagram) representation
 - ▶ Perimeter-based abstraction heuristic (built from goal)