Planners

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PUI (Planning in Artificial Intelligence)
IPC
International Planning Competition

- http://www.icaps-conference.org/index.php/Main/Competitions
Planners
Sub-optimal / Satisficing

▶ FF (Fast Forward, 2001)
  ▶ http://fornix.felk.cvut.cz:5000/ff
  ▶ Forward-chaining heuristic state space search
  ▶ Enforced hill-climbing / Breadth-first search
  ▶ FF heuristic (relaxation)

LAPKT (Lightweight Automated Planning ToolKiT, 2014)

- http://lapkt.org (Many configurations)
- SIW
  - Sequence of iterated breadth-first searches using relaxed plans for pruning
  - Exploiting atomic goals

Lama (2009, 2011)

- Iterated Weighted A*
- Multi-heuristic search (FF, Landmarks)
- (inadmissible)

PROBE (2011)

- GBFS + relaxation heuristic ($h_{\text{add}}$)
- From each state a greedy probes with highly informed heuristics

Planners
Sub-optimal / Satisficing

▶ Mercury (2014)
  ▶ http://fornix.felk.cvut.cz:5000/mercury
  ▶ GBFS + Red-black relaxation heuristic

Planners
Sub-optimal / Satisficing

- yahsp3 (2014)
  - Heuristic search with lookahead using relaxed plans
  - Not on FD codebase

Planners
Optimal

- FD-ms (2011)
  - http://fornix.felk.cvut.cz:5000/ms
  - $A^*$
  - Merge&Shrink abstraction heuristic

Planners

Optimal

- FD-lmcut (2011)
  - A*
  - LM-Cut landmark heuristic

Planners
Optimal

▶ SymBA* (2014)
  ▶ http://fornix.felk.cvut.cz:5000/symba
  ▶ A* in BDD (binary decision diagram) representation
  ▶ Perimeter-based abstraction heuristic (built from goal)

_Edelkamp, Stefan, Peter Kissmann, and Alvaro Torralba. "BDDs Strike Back (in AI Planning)." AAAI. 2015._
OPTIC (2012)

- http://temporal-solver.herokuapp.com
- https://nms.kcl.ac.uk/planning/software/optic.html

Planners
Temporal

- Temporal Fast-Downward (2009)
  - TBA