Beam stack search

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Beam Stack Search[1] is a search algorithm that combines chronological backtracking (that is, depth-first search) with beam search and is similar to Depth-First Beam Search.[2] Both search algorithms are anytime algorithms that find good but likely sub-optimal solutions quickly, like beam search, then backtrack and continue to find improved solutions until convergence to an optimal solution.

Implementation [edit]

Beam Stack Search uses the beam stack as a data structure to integrate chronological backtracking with beam search and can be combined with the divide and conquer algorithm technique, resulting in divide-and-conquer beam-stack search.

Alternatives [edit]

Beam Search Using Limited Discrepancy Backtracking[2] (BULB) is a search algorithm that combines limited discrepancy search with beam search and thus performs non-chronological backtracking, which often outperforms the chronological backtracking done by Beam Stack Search and Depth-First Beam Search.

References [edit]

1. ^ Zhou, Rong; Hansen, Eric (2005). "Beam-Stack Search: Integrating Backtracking with Beam Search". CiteSeerX: 10.1.1.71.4147.
2. ^ a b Furcy, David. Koenig, Sven. "Limited Discrepancy Beam Search". 2005. http://www.ijcai.org/papers/0596.pdf

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Current events
Random article
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Help
About Wikipedia
Community portal
Recent changes
Contact page

Tools
What links here
Related changes
Upload file
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