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Beam stack search

From Wikipedia, the free encyclopedia

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 [\[edit\]](#)

- ↑ Zhou, Rong; Hansen, Eric (2005). "Beam-Stack Search: Integrating Backtracking with Beam Search". *CiteSeerX* 10.1.1.71.4147 [↗](#).
- ↑ ^a ^b Furcy, David. Koenig, Sven. "Limited Discrepancy Beam Search". 2005. <http://www.ijcai.org/papers/0596.pdf> 



*This [algorithms](#) or [data structures](#)-related article is a **stub**. You can help Wikipedia by [expanding it](#).*

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