

Nonserial dynamic programming

Academic Press - Decision Diagrams and Dynamic Programming

Nonserial Monadic DP Formulations: Longest-Common-Subsequence

- Given a sequence $A = \langle a_1, a_2, \dots, a_n \rangle$, a subsequence of A can be formed by deleting some entries from A .
- Given two sequences $A = \langle a_1, a_2, \dots, a_n \rangle$ and $B = \langle b_1, b_2, \dots, b_m \rangle$, find the longest sequence that is a subsequence of both A and B .
- If $A = \langle c, a, d, b, f, z \rangle$ and $B = \langle a, s, b, z \rangle$, the longest common subsequence of A and B is $\langle a, b, z \rangle$.

Description: -

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Dynamic programming, Nonserial dynamic programming

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Mathematics in science and engineering, Nonserial dynamic programming

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Nonserial Dynamic Programming, Volume 91

Thanks in advance for your time. .

Nonserial Dynamic Programming, Volume 91

Lecture Notes in Computer Science, vol 7874. Hooker stressed is nonserial dynamic programming NSDP which allows to compute solution in stages, each of them uses results from previous stages. One of the major contributions to the planning and management of Research and Development organizations is the evolution of methods for dealing with PERT-Cost or CPM-Cost problems.

Decision Diagrams and Dynamic Programming

The idea is to simply store the results of subproblems, so that we do not have to re-compute them when needed later. This simple optimization reduces time complexities from exponential to polynomial. Wherever we see a recursive solution that has repeated calls for same inputs, we can optimize it using Dynamic Programming.

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The benchmarking reveals that the ordering of the variables has a significant impact on the run-time of these algorithms.

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