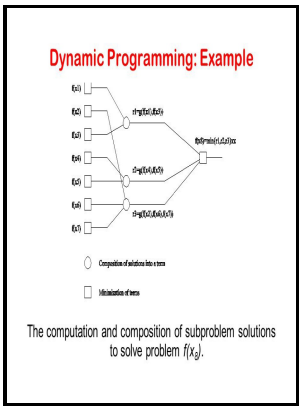
Nonserial dynamic programming

Academic Press - Dynamic Programming Models of the Nonserial Critical Path



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NONSERIAL DYNAMIC PROGRAMMING VOLUME 91 MATHEMATICS IN SCIENCE AND ENGINEERING

The class of discrete optimization problems with the block-tree-structure matrix of constraints is considered.

Nonserial dynamic programming (Book, 1972) [ne-x.uni.rf.gd]

In particular, the project time minimization procedure results in less complex dynamic programming models and is thus employed in this paper. When nonserial precedence relationships are involved, this problem cannot be solved by routine invocation of conventional dynamic programming formulations or algorithms. Flexible - Read on multiple operating systems and devices.

DYNAMIC PROGRAMMING APPROACH TO SCHEDULING OF NONSERIAL LINEAR PROJECT

DYNAMIC PROGRAMMING APPROACH TO SCHEDULING OF NONSERIAL LINEAR PROJECT A nonserial dynamic programming formulation for scheduling linear projects with nonsequential activities is presented.

Nonserial Dynamic Programming, Volume 91

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above. Presented at GICOLAG Workshop Global Optimization: Integrating Convexity, Optimization, Logic Programming, and Computational Algebraic Geometry , Vienna.

Dynamic Programming

Benchmarking ordering techniques for nonserial dynamic programming. This simple optimization reduces time complexities from exponential to polynomial.

NONSERIAL DYNAMIC PROGRAMMING VOLUME 91 MATHEMATICS IN SCIENCE AND ENGINEERING

Finally, it is shown that, amongst the algorithms considered here, heuristics based on maximum cardinality search and minimum fill-in perform best

for solving the discrete optimization problems considered in this paper. Considerable savings in computational requirements are achieved by consolidating all phases preceding a junction node prior to the invocation of the dynamic programming procedure.

Decision Diagrams and Dynamic Programming

The ability to handle both serial and nonserial linear projects with activities performed with variable crew formations is a major advantage of this approach.

Nonserial Dynamic Programming with Applications in Smart Home Appliances Scheduling

Three recent computational reduction techniques based primarily on the introduction of the artifice of pseudo-tasks and pseudo-stages are invoked to treat different variations of this essentially nonserial critical path-cost problem.

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