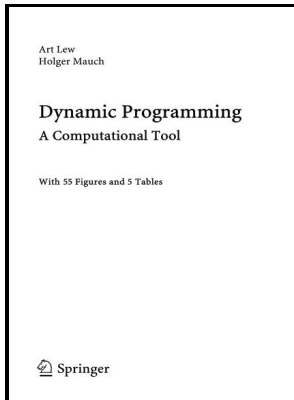


Nonserial dynamic programming

Academic Press - DYNAMIC PROGRAMMING APPROACH TO SCHEDULING OF NONSERIAL LINEAR PROJECT



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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This edition was published in 1972



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Dynamic Programming Models of the Nonserial Critical Path

Contrary to that of the previous method, the computation effort of the proposed method can be characterized by a well-known minimum feedback vertex set problem. In addition, it is shown that different orderings are most effective for different classes of problems.

Introduction To Dynamic Programming Series In Decision And Control PDF Book

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

Decision Diagrams and Dynamic Programming

For RAP in its general form, this paper proposes a modification to the nonserial DP procedure originally introduced by Bertele and Brioschi. The formulation derives an optimum crew size for production activities that leads to minimum project total cost.

Benchmarking ordering techniques for nonserial dynamic programming, Memetic Computing

An example illustrates the computational steps, validates the calculation algorithm, and demonstrates the capabilities of the proposed procedure. If the precedence relations possess a serial structure, one can develop two essentially equivalent dynamic programming formulations, of the resource allocation variety, by minimizing either the project cost or the completion time. This simple optimization reduces time complexities from exponential to polynomial.

Dynamic Programming

When nonserial precedence relationships are involved, this problem cannot be solved by routine invocation of conventional dynamic programming formulations or algorithms. Further, the complexity of the dynamic programming formulation does not, unlike other methods, increase with the number of phases tasks but only with the degree in which the additional tasks change the structure of the precedence relations.

DYNAMIC PROGRAMMING APPROACH TO SCHEDULING OF NONSERIAL LINEAR PROJECT

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Considerable savings in computational requirements are achieved by consolidating all phases preceding a junction node prior to the invocation of the dynamic programming procedure. Thanks in advance for your time. Hooker stressed is nonserial dynamic programming NSDP which allows to compute solution in stages, each of them uses results from previous stages.

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