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Messina, Paul C.

Problems And Methodologies In Mathematical Software Production Lecture Notes In Computer Science 14

Terry C. Jones

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within a finite number of iterations Several novel methodologies are presented by using dynamic optimization and semi infinite programming techniques The core advantages of our new approaches lie in two folds i The system input switch times and the switching sequence can be optimized simultaneously ii The proposed algorithms terminate within finite iterations while coming with a certification of feasibility for the path constraints In this book first we provide brief surveys on dynamic optimization of path constrained systems and switched systems For switched systems with a fixed switching sequence we propose a bi level algorithm in which the input is optimized at the inner level and the switch times are updated at the outer level by using the gradient information of the optimal value function calculated at the optimal input We then propose an efficient single level algorithm by optimizing the input and switch times simultaneously which greatly reduces the number of nonlinear programs and the computational burden For switched systems with free switching sequences we propose a solution framework for dynamic optimization of path constrained switched systems by employing the variant 2 of generalized Benders decomposition technique In this framework we adopt two different system formulations in the primal and master problem construction and explicitly characterize the switching sequences by introducing a binary variable Finally we propose a multi objective dynamic optimization algorithm for locating approximated local Pareto solutions and quantitatively analyze the approximation optimality of the obtained solutions This book provides a unified framework of dynamic optimization of path constrained switched systems It can therefore serve as a useful book for researchers and graduate students who are interested in knowing the state of the art of dynamic optimization of switched systems as well as recent advances in path constrained optimization problems It is a useful source of up to date optimization methods and algorithms for researchers who study switched systems and graduate students of control theory and control engineering In addition it is also a useful source for engineers who work in the control and optimization fields such as robotics chemical engineering and industrial processes   *Tools, Methods, and Languages for Scientific and Engineering Computation* B. Ford,J.-C. Rault,François Thomasset,1984 Computer Applications Physical Sciences and Engineering   **Mathematical Reviews** ,2002   American Scientist ,1942   **The British National Bibliography** Arthur James Wells,2005   **Integer Programming and Related Areas** Universität Bonn. Institut für Ökonometrie und Operations Research,1982   **Integer Programming and Related Areas** Rabe Randow,Universität Bonn. Institut für Ökonometrie und Operations Research,1990   *Current Index to Journals in Education* ,2001   Government Reports Annual Index ,1994   **Sources and Development of Mathematical Software** Wayne R. Cowell,1984   **Guide to Reference Sources in the Computer Sciences** Ciel Michèle Carter,1974 Critical evaluative reviews of computer science reference sources Good starting point for learning the computer reference literature or to find a source of needed information Published 1974

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