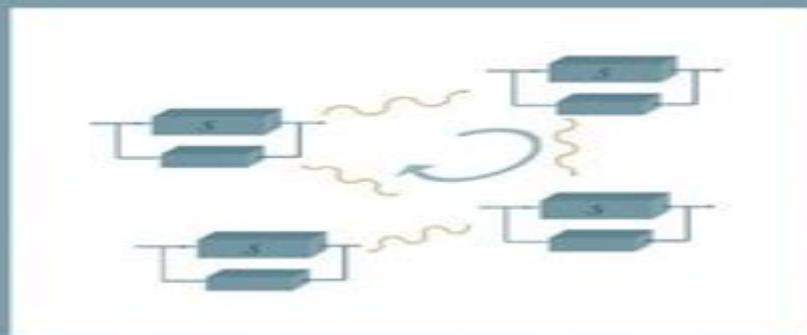


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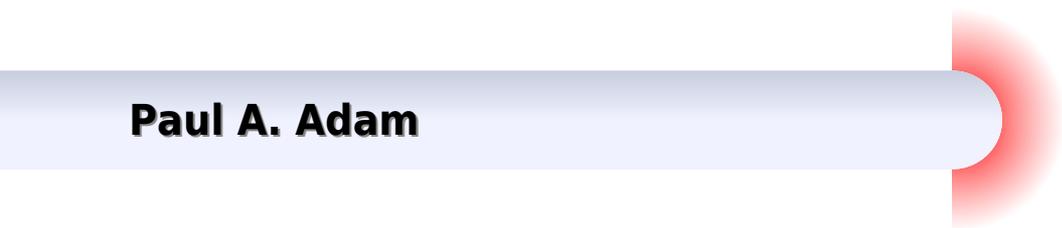
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Handbook Of Networked And Embedded Control Systems

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Optimal Control of Switched Systems with Application to Networked Embedded Control Systems Daniel Görge,2012 This thesis addresses optimal control of discrete time switched linear systems with application to networked embedded control systems NECSs Part I focuses on optimal control and scheduling of discrete time switched linear systems The objective is to simultaneously design a control law and a switching scheduling law such that a cost function is minimized This optimization problem exhibits exponential complexity Taming the complexity is a major challenge Two novel methods are presented to approach this optimization problem Receding horizon control and scheduling relies on the receding horizon principle The optimization problem is solved based on relaxed dynamic programming allowing to reduce

complexity by relaxing optimality within predefined bounds The solution can be expressed as a piecewise linear PWL state feedback control law Stability is addressed via an a priori stability condition based on a terminal weighting matrix and several a posteriori stability criteria based on constructing piecewise quadratic Lyapunov functions and on utilizing the cost function as a candidate Lyapunov function Moreover a region reachability criterion is derived Periodic control and scheduling relies on periodic control theory Both offline and online scheduling are studied The optimization problem is solved based on periodic control and exhaustive search The online scheduling solution can again be expressed as a PWL state feedback control law Stability is guaranteed inherently Several methods are proposed to reduce the online complexity based on relaxation and heuristics Part II focuses on optimal control and scheduling of NECSs The NECS is modeled as a block diagonal discrete time switched linear system Various control and scheduling codesign strategies are derived based on the methods from Part I regarding the structural properties of NECSs The methods presented in Part I and II are finally evaluated in a case study

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EMSOFT 2006, 2006 *Choice*, 2005 Modern Control Systems Richard C. Dorf, Robert H. Bishop, 2008 Written to be equally useful for all engineering disciplines this book is organized around the concept of control systems theory as it has been developed in the frequency and time domains It provides coverage of classical control employing root locus design frequency and response design using Bode and Nyquist plots It also covers modern control methods based on state variable models including pole placement design techniques with full state feedback controllers and full state observers The book covers several important topics including robust control systems and system sensitivity state variable models controllability and observability computer control systems internal model control robust PID controllers and computer aided design and analysis For all types of engineers who are interested in a solid introduction to control systems

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