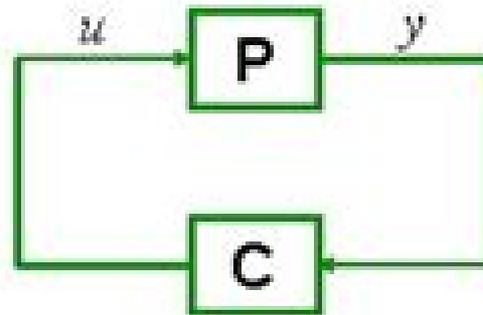


# SWITCHING CONTROL

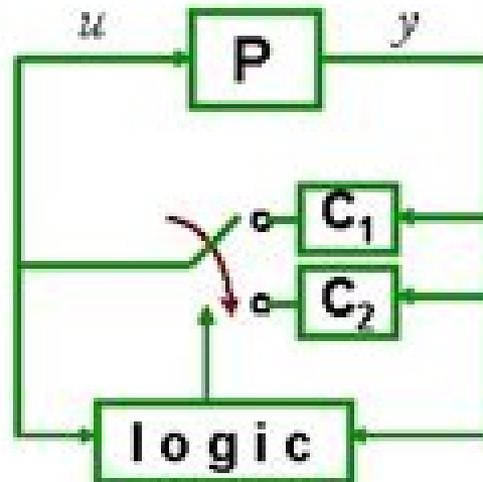
Plant:



Classical continuous feedback paradigm:



But **logical decisions** are often necessary:



The closed-loop system is **hybrid**

# Control Using Logicbased Switching

**Thomas J. Cloonan**



## **Control Using Logicbased Switching:**

*Control Using Logic-Based Switching* A. Stephen Morse, 1997 A logic based switching controller is one whose subsystems include not only familiar dynamical components such as integrators summers gains etc but event driven logic and associated switches as well In such a system the predominantly logical component is the supervisor mode changer etc There has been growing interest in recent years in determining what could be gained from utilising hybrid controllers of this type To this end a workshop was held on Block Island with the aim of bringing together individuals to discuss the research and common interest in the field This volume not only includes contributions from those who were present at Block Island but also additional material from those who were not Topics covered include hybrid dynamical systems control of hard bound constrained and nonlinear systems automotive problems involving switching control and system control in the face of large scale modeling errors

Control Using Logic-Based Switching ,1995 Between the well studied areas of discontinuous control on the one hand and sampled data control on the other lies the largely unexplored area of logic based switching control systems By a logic based switching controller is meant a controller whose subsystems include not only familiar dynamical components integrators summers gains etc but logic driven elements as well More often than not the predominately logical component within such a system is called a supervisor a mode changer a gain scheduler or something similar Within the last decade a number of analytical studies of such systems have emerged mainly in the area of self adjusting control These studies and others have shown that much can be gained by using logic based switching together with more familiar techniques in the synthesis of feedback controls The overall models of systems composed of such logics together with the processes they are intended to control are concrete examples of hybrid dynamical systems The paper gives a brief tutorial review of four different classes of hybrid systems of this type each consists of a continuous time process to be controlled a parameterized family of candidate controllers and an event driven switching logic Three of the logics called prerouted switching hysteresis switching and dwell time switching respectively are simple strategies capable of determining in real time which candidate controller should be put in feedback with a process in order to achieve desired closed loop performance The fourth called cyclic switching has been devised to solve the long standing stabilizability problem which arises in the synthesis of identifier based adaptive controllers because of the existence of points in parameter space where the estimated model upon which certainty equivalence synthesis is based loses stabilizability

*Hybrid Systems V* Panos J. Antsaklis, Wolf Kohn, Michael Lemmon, Anil Nerode, Shankar Sastry, 2003-07-31 This book constitutes the strictly refereed post proceedings of the 5th International Hybrid Systems Workshop held in Notre Dame Indiana USA in September 1998 The 23 revised full papers presented in the book have gone through two rounds of thorough reviewing and revision The volume presents state of the art research results and particularly addresses such areas as program verification concurrent and distributed processes logic programming logics of programs discrete event simulation calculus of variations optimization

differential geometry Lie algebras automata theory dynamical systems etc      Trends in Control Alberto Isidori,2012-12-06  
This book contains the text of the plenary lectures and the mini courses of the European Control Conference ECC 95 held in Rome Italy September 5 September 8 1995 In particular the book includes nine essays in which a selected number of prominent authorities present their views on some of the most recent developments in the theory and practice of control systems design and three self contained sets of lecture notes Some of the essays are focused on the topic of robust control The article by J Ackermann describes how to robustly control the rotational motions of a vehicle to the purpose of simplifying the driver s task The contribution by H K wakernaak presents a detailed discussion of the requirements that performance and robustness impose on control systems design and of the symmetric roles of sensitivity and complementary sensitivity functions The article by P Boulet B A Francis P C Hughes and T Hong describes an experimental testbed facility called Daisy whose dynamics emulate those of a real large flexible space structure and whose purpose is to test advanced identification and control design methods The article of K Glover discusses recent advances in uncertain system modeling analysis and design with ref erence to a flight control case study that has been test flown The other essays describe advances in fundamental problems of control theory The article by V A Yakubovich is a survey of certain new infinite horizon linear quadratic optimization problems The contribution by A S      New Trends in Observer-Based Control Olfa Boubaker,Quanmin Zhu,Magdi S. Mahmoud,Jose Ragot,Hamid Reza Karimi,Jorge Dávila,2019-03-30 New Trends in Observer Based Control An Introduction to Design Approaches and Engineering Applications Volume One presents a clear and concise introduction to the latest advances in observer based control design It provides a comprehensive tutorial on new trends in the design of observer based controllers for which the separation principle is well established In addition since the theoretical developments remain more advanced than the engineering applications more experimental results are still needed A wide range of applications are covered and the book contains worked examples which make it ideal for both advanced courses and researchers starting in the field Presents a clear and concise introduction to the latest advances in observer based control design Offers concise content on the many facets of observer based control design Discusses key applications in the fields of power systems robotics and mechatronics and flight and automotive systems      Advances in Unmanned Marine Vehicles G.N. Roberts,R. Sutton,2006-01-31 Unmanned marine vehicles UMs include autonomous underwater vehicles remotely operated vehicles semi submersibles and unmanned surface craft Considerable importance is being placed on the design and development of such vehicles as they provide cost effective solutions to a number of littoral coastal and offshore problems This book highlights the advanced technology that is evolving to meet the challenges being posed in this exciting and growing area of research      **Control Applications in Marine Systems 2004** Reza Katebi,Sauro Longhi,2006-01-06  
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