

# Lecture Notes in Economics and Mathematical Systems

Managing Editors: M. Beckmann and H. P. Künzi

Control Theory

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Control Theory, Numerical Methods  
and Computer Systems Modelling



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**Introduction to the Theory of Matroids** R. v. Randow, 2012-12-06 Matroid theory has its origin in a paper by H Whitney entitled On the abstract properties of linear dependence 35 which appeared in 1935 The main objective of the paper was to establish the essential abstract properties of the concepts of linear dependence and independence in vector spaces and to use these for the axiomatic definition of a new algebraic object namely the matroid Furthermore Whitney showed that these axioms are also abstractions of certain graph theoretic concepts This is very much in evidence when one considers the basic concepts making up the structure of a matroid some reflect their linear algebraic origin while others reflect their graph theoretic origin Whitney also studied a number of important examples of matroids The next major development was brought about in the forties by R Rado s matroid generalisation of P Hall s famous marriage theorem This provided new impulses for transversal theory in which matroids today play an essential role under the name of independence structures of the treatise on transversal theory by L Mirsky 26J At roughly the same time R P Dilworth established the connection between matroids and lattice theory Thus matroids became an essential part of combinatorial mathematics About ten years later W T Tutte 30 developed the fundamentals of matroids in detail from a graph theoretic point of view and characterised graphic matroids as well as the larger class of those matroids that are representable over any field Variable Structure Systems with

Application to Economics and Biology R. R. Mohler, A. Ruberti, 2012-12-06 The proceedings of the Second US Italy Seminar on Variable Structure Systems is published in this volume Like the first seminar its conception evolved from common research interests on bilinear systems at the Istituto di Automatica of Rome University and at the Electrical and Computer Engineering Department of Oregon State University Again the seminar was focused on variable structure systems in general In this case however emphasis is given to applications in biology and economics along with theoretical investigations which are so necessary to establish a unified theory and to motivate further developments in these applications of social significance By bringing together the talents of social and biological scientists with those of engineers and mathematicians from throughout Italy and the United States the seminar was intended to yield a cross pollination of significant results and a base for more meaningful future research The editors are encouraged by the progress with which they hope the reader will agree is made in this direction No pretense is made however that completely satisfactory integration of theoretical results and applications has been accomplished at this time Among the more important conclusions which have resulted from this seminar are that bilinear and more general variable structure models arise in a natural manner from basic principles for certain biological and economic processes *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics, 1980

**Proceedings - Annual Allerton Conference on Circuit and System Theory**, 1976 **Objectives and Multi-Objective Decision Making Under Uncertainty** J. Wilhelm, 2012-12-06 *Graduate Studies*, 1993 *Grants and Awards for the Fiscal Year Ended ...* National Science Foundation (U.S.), 1976 **New Technical Books** New York Public Library, 1975 Library of Congress Catalogs Library of Congress, 1976 **National Union Catalog**, 1978 Includes

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