

**Yasuo Murata**

**Optimal Control Methods  
for Linear Discrete-Time  
Economic Systems**



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# Optimal Control Methods For Linear Discrete Time Economic Systems

**Kenneth Joseph Arrow, Michael D.  
Intriligator**



## **Optimal Control Methods For Linear Discrete Time Economic Systems:**

**Optimal Control Methods for Linear Discrete-Time Economic Systems** Y. Murata, 2012-12-06 As our title reveals we focus on optimal control methods and applications relevant to linear dynamic economic systems in discrete time variables We deal only with discrete cases simply because economic data are available in discrete forms hence realistic economic policies should be established in discrete time structures Though many books have been written on optimal control in engineering we see few on discrete type optimal control More over since economic models take slightly different forms than do engineer ing ones we need a comprehensive self contained treatment of linear optimal control applicable to discrete time economic systems The present work is intended to fill this need from the standpoint of contemporary macroeconomic stabilization The work is organized as follows In Chapter 1 we demonstrate instru ment instability in an economic stabilization problem and thereby establish the motivation for our departure into the optimal control world Chapter 2 provides fundamental concepts and propositions for controlling linear deterministic discrete time systems together with some economic applica tions and numerical methods Our optimal control rules are in the form of feedback from known state variables of the preceding period When state variables are not observable or are accessible only with observation errors we must obtain appropriate proxies for these variables which are called observers in deterministic cases or filters in stochastic circumstances In Chapters 3 and 4 respectively Luenberger observers and Kalman filters are discussed developed and applied in various directions Noticing that a separation principle lies between observer or filter and controller cf Optimal Control Methods for Linear Discrete-time Economic Systems Yasuo Murata, 1982 As our title reveals we focus on optimal control methods and applications relevant to linear dynamic economic systems in discrete time variables We deal only with discrete cases simply because economic data are available in discrete forms hence realistic economic policies should be established in discrete time structures Though many books have been written on optimal control in engineering we see few on discrete type optimal control More over since economic models take slightly different forms than do engineer ing ones we need a comprehensive self contained treatment of linear optimal control applicable to discrete time economic systems The present work is intended to fill this need from the standpoint of contemporary macroeconomic stabilization The work is organized as follows In Chapter 1 we demonstrate instru ment instability in an economic stabilization problem and thereby establish the motivation for our departure into the optimal control world Chapter 2 provides fundamental concepts and propositions for controlling linear deterministic discrete time systems together with some economic applica tions and numerical methods Our optimal control rules are in the form of feedback from known state variables of the preceding period When state variables are not observable or are accessible only with observation errors we must obtain appropriate proxies for these variables which are called observers in deterministic cases or filters in stochastic circumstances In Chapters 3 and 4 respectively Luenberger observers and Kalman filters are discussed developed and applied in various directions Noticing

that a separation principle lies between observer or filter and controller cf **Dynamic Modelling and Control of National Economies 1989** N.M. Christodoulakis,2014-06-28 The Symposium aimed at analysing and solving the various problems of representation and analysis of decision making in economic systems starting from the level of the individual firm and ending up with the complexities of international policy coordination The papers are grouped into subject areas such as game theory control methods international policy coordination and the applications of artificial intelligence and experts systems as a framework in economic modelling and control The Symposium therefore provides a wide range of important information for those involved or interested in the planning of company and national economics Bayesian Full Information Analysis of Simultaneous Equation Models Using Integration by Monte Carlo L. Bauwens,2012-12-06 In their review of the Bayesian analysis of simultaneous equation systems Dr ze and Richard 1983 hereafter DR express the following viewpoint about the present state of development of the Bayesian full information analysis of such systems i the method allows a flexible specification of the prior density including well defined noninformative prior measures ii it yields exact finite sample posterior and predictive densities However they call for further developments so that these densities can be evaluated through numerical methods using an integrated software package To that end they recommend the use of a Monte Carlo technique since van Dijk and Kloek 1980 have demonstrated that the integrations can be done and how they are done In this monograph we explain how we contribute to achieve the developments suggested by Dr ze and Richard A basic idea is to use known properties of the posterior density of the parameters of the structural form to design the importance functions i.e approximations of the posterior density that are needed for organizing the integrations *A Disequilibrium Model of Real and Financial Accumulation in an Open Economy* Giancarlo Gandolfo,Pietro C. Padoan,2012-12-06 This is the fourth version of a model that five years ago we set out to build and estimate along the lines of the continuous time approach clarified In chapter 1 Previous versions appeared in journal articles and conference proceedings where the space is notoriously limited Therefore we welcome the possibility of publishing a book length treatment of this fourth version so that we can describe its theoretical and empirical aspects in some detail Although we have worked closely together and accept joint responsibility for the whole book chs 1 and 2 and appendix I have been written by G Gandolfo whilst chs 3 and 4 and appendix II have been written by P c Padoan Different parts of this version of the model have been discussed In various lectures at the European University Institute Florence in 1984 In a seminar organized by the Bank of Italy Sadiba Perugia Italy February 16 18 1984 in the second Viennese Workshop on Economic Applications of Control Theory Vienna May 16 18 1984 and in the sixth annual Conference of the Society for Economic Dynamics and Control Nice France June 13 15 1984 In all of these we received helpful comments similarly helpful were the comments of Clifford R Wymer who however is absolved of any responsibility

**The M/M/∞Service System with Ranked Servers in Heavy Traffic** G.F. Newell,2012-12-06 We are concerned here with a service facility consisting of a large finite number of servers in parallel The service times for all servers are identical

but there is a preferential ordering of the servers Each newly arriving customer enters the lowest ranked available server and remains there until his service is completed It is assumed that customers arrive according to a Poisson process of rate  $\lambda$  that all servers have exponentially distributed service times with rate  $\mu$  and that  $\lambda$  is large compared with  $\mu$  Generally we are concerned with the stochastic properties of the random function  $N_s(t)$  describing the number of busy servers among the first  $s$  ordered servers at time  $t$  Most of the analysis is motivated by special applications of this model to telephone traffic If one has a trunk line with  $s$  primary channels but a large number  $\infty$  of secondary overflow channels each newly arriving customer is assigned to one of the primary channels if any are free otherwise he is assigned to a secondary channel The primary and secondary channels themselves could have a preferential ordering For some purposes it is convenient to imagine that they did even if an ordering is irrelevant

*Nonlinear Models of Fluctuating Growth* R.M. Goodwin, M. Krüger, A. Vercelli, 2012-12-06

Misspecification Analysis Theo K. Dijkstra, 2012-12-06

Stochastic Models in Reliability Theory S. Osaki, Y. Hatoyama, 2013-03-08

Interactive Decision Analysis M. Grauer, A.P. Wierzbicki, 2013-03-14

During the week of September 20-23 1983 an International Workshop on Interactive Decision Analysis and Interpretative Computer Intelligence was held at the International Institute for Applied Systems Analysis IIASA in Laxenburg Austria More than fifty scientists representing seventeen countries participated The aim of the Workshop was to review existing approaches to problems involving multiple conflicting objectives to look at methods and techniques for interactive decision analysis and to demonstrate the use of existing interactive decision support systems The Workshop was motivated firstly by the realization that the rapid development of computers especially microcomputers will greatly increase the scope and capabilities of computerized decision support systems It is important to explore the potential of these systems for use in handling the complex technological environmental economic and social problems that face the world today Research in decision support systems also has another less tangible but possibly more important motivation The development of efficient systems for decision support requires a thorough understanding of the differences between the decision making processes in different nations and cultures An understanding of the different rationales underlying decision making is not only necessary for the development of efficient decision support systems but is also an important factor in encouraging international understanding and cooperation

Macro-Economic Planning with Conflicting Goals M. Despontin, P. Nijkamp, J. Spronk, 2012-12-06

*Applied Macroeconomics for Public Policy* Rafael Yanushevsky, Camilla Yanushevsky, 2018-09-28

Applied Macroeconomics for Public Policy applies system and control theory approaches to macroeconomic problems The book shows how to build simple and efficient macroeconomic models for policy analysis By using these models instead of complex multi-criteria models with uncertain parameters readers will gain new certainty in macroeconomic decision making As high debt to GDP ratios cause problems in societies this book provides insights on improving economies during and after economic downturns Provides a detailed analysis of existing macroeconomic models Addresses the dynamics of debt to GDP ratio and the effects

of fiscal and monetary policy on this ratio Shows how to use models to evaluate the dynamics of the debt to GDP ratio in cases of government spending and tax cuts and to decide whether such economic measures are efficient Uses optimal theory to obtain optimal yearly debt levels to reach the established goals decrease debt or balance budget Provides many examples and software exercises to promote learning by doing

**SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,1976 Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry

A Control Theory Approach to Analysis of Economic Policy for a Developing Country Dickson Akwasi Yeboah,1987 Control Theory is applied to the economy of a developing country to determine the best ways to achieve a set of economic policy objectives as indexed by a criterion function when the performance is judged over many years and when the dynamic behaviour of the system is subject to a set of constraints Economic policy instruments are constrained and boundary conditions imposed to ensure that the solution path is reasonable Control Theory does not only provide normative prescriptions to economic policy issues but also serves as an important supplementary tool in the realm of economic forecasting A priori knowledge of the various political bureaucratic and administrative influences could provide the policy adviser with a vivid picture of the pressures that could muddy the waters for policy makers in developing countries and which could shape priorities of economic policy

Index to IEEE Periodicals Institute of Electrical and Electronics Engineers,1972 Proceedings of the IEEE IEEE Transactions IEEE Journals IEEE Spectrum

*Control and dynamic systems* C. T. Leondes,1988

Mathematical Reviews ,2004 Journal of Guidance, Control, and Dynamics ,2008 *Systems Engineering for Power* ,1975

**Handbook of Mathematical Economics: Mathematical approaches to microeconomic theory** Kenneth Joseph Arrow,Michael D. Intriligator,1981 V 1 Historical introduction v 2 Mathematical approaches to microeconomic theory v 3 Mathematical approaches to welfare economics

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