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# **MODELING, CONTROL AND OPTIMIZATION OF COMPLEX SYSTEMS**

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Leyuan Shi**

**Foreword by  
Christos Cassandras**



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# Modeling Control And Optimization Of Complex Systems In Honor Of Professor Yuchi Ho

**Limei Ding**



## **Modeling Control And Optimization Of Complex Systems In Honor Of Professor Yuchi Ho:**

*Modeling, Control and Optimization of Complex Systems* Weibo Gong, Leyuan Shi, 2012-12-06 *Modeling Control And Optimization Of Complex Systems* is a collection of contributions from leading international researchers in the fields of dynamic systems control theory and modeling These papers were presented at the Symposium on Modeling and Optimization of Complex Systems in honor of Larry Yu Chi Ho in June 2001 They include exciting research topics such as modeling of complex systems power control in ad hoc wireless networks adaptive control using multiple models constrained control linear quadratic control discrete events Markov decision processes and reinforcement learning optimal control for discrete event and hybrid systems optimal representation and visualization of multivariate data and functions in low dimensional spaces

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**des mélanges** , 2003      **Control and Modeling of Complex Systems** Koichi Hashimoto, Yutaka Yamamoto, Yasuaki Oishi, 2002-12-13 Hidenori Kimura renowned system and control theorist turned 60 years of age in November 2001 To celebrate this memorable occasion his friends collaborators and former students gathered from all over the world and held a symposium in his honor on November 1 and 2 2001 at the Sanjo Conference Hall at the University of Tokyo Reflecting his current research interests the symposium was entitled Cybernetics in the 21st Century Information and Complexity in Control Theory and it drew nearly 150 attendees There were twenty five lectures on which the present volume is based Hidenori Kimura was born on November 3 1941 in Tokyo just prior to the outbreak of the Second World War It is not hard to imagine then that his early days like those of so many of his contemporaries must have been difficult Fortunately the war ended in 1945 and his generation found itself thoroughly occupied with the rebuilding effort and with Japan s uphill journey in the last half century He entered the University of Tokyo in 1963 received a B S in 1965 an M S in 1967 and in 1970 a Ph D degree for his dissertation A Study of Differential Games After obtaining his doctorate he joined the Department of Control Engineering at Osaka University as a research associate and in 1973 he was promoted to an associate professor      **Control and Modeling of Complex Systems** Koichi Hashimoto, Yutaka Yamamoto, Yasuaki Oishi, Hidenori Kimura renowned system and control theorist turned 60 years of age in November 2001 To celebrate this memorable occasion his friends collaborators and former students gathered from all over the world and held a symposium in his honor on November 1 and 2 2001 at the Sanjo Conference Hall at the University of Tokyo Reflecting his current research interests the symposium was entitled Cybernetics in the 21st Century Information and Complexity in Control Theory and it drew nearly 150 attendees There were twenty five lectures on which the present volume is based Hidenori Kimura was born on November 3 1941 in Tokyo just prior to the outbreak of the Second World War It is not hard to imagine then that his early days like those of so many of his contemporaries must have been difficult Fortunately the war ended in 1945 and his generation found itself thoroughly

occupied with the rebuilding effort and with Japan's uphill journey in the last half century He entered the University of Tokyo in 1963 received a B S in 1965 an M S in 1967 and in 1970 a Ph D degree for his dissertation A Study of Differential Games After obtaining his doctorate he joined the Department of Control Engineering at Osaka University as a research associate and in 1973 he was promoted to an associate professor

**Handbook of Research on Modeling, Analysis, and Control of Complex Systems** Ahmad Taher Azar, Nashwa Ahmad Kamal, 2020-09 This book is mainly focused on the recent achievements and applications in the field of control and analysis for complex systems with a special emphasis on how to solve various control design and or observer design problems for nonlinear systems interconnected systems and singular systems and involves modeling non ideal systems and applications synchronization and control for nonlinear systems such as mechanical electrical electromechanical mechatronic and very complex systems

**Modelling and Optimization of Complex System** G.I. Marchuk, Guriĭ Ivanovich Marchuk, 1979-07 These proceedings contain most of the papers presented at the IFIP TC 7 Working Conference on Modelling and Optimization of Complex Systems held in Novosibirsk Russia on 3-9 July 1978 The program offered a broad view of optimization techniques currently in use and under investigation The major emphasis was on recent advances in optimal control and mathematical programming and their application to modelling identification and control of large systems in particular Also included are recent applications in areas such as biological environmental and socio economic systems

**System Modeling and Optimization** Adam Korytowski, Maciej Szymkat, Kazimierz Malanowski, Wojciech Mitkowski, 2009-12-15 This book constitutes a collection of extended versions of papers presented at the 23 IFIP TC7 Conference on System Modeling and Optimization which was held in C row Poland on July 23-27 2007 It contains 7 plenary and 22 contributed articles the latter selected via a peer reviewing process Most of the papers are concerned with optimization and optimal control Some of them deal with practical issues e g performance based design for seismic risk reduction or evolutionary optimization in structural engineering Many contributions concern optimization of infinite dimensional systems ranging from a general overview of the variational analysis through optimization and sensitivity analysis of PDE systems to optimal control of neutral systems A significant group of papers is devoted to shape analysis and optimization Sufficient optimality conditions for ODE problems and stochastic control methods applied to mathematical finance are also investigated The remaining papers are on mathematical programming modeling and information technology The conference was the 23rd event in the series of such meetings biennially organized under the auspices of the Seventh Technical Committee Systems Modeling and Optimization of the International Federation for Information Processing IFIP TC7

*On Modeling and Control of Complex Dynamic Systems* Limei Ding, 2000

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