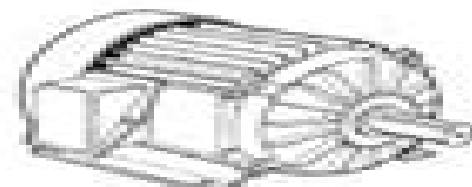
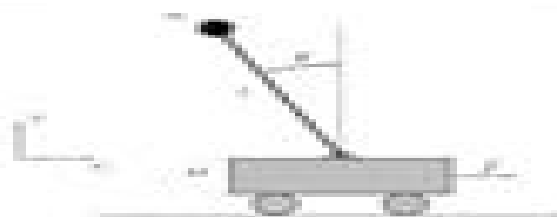
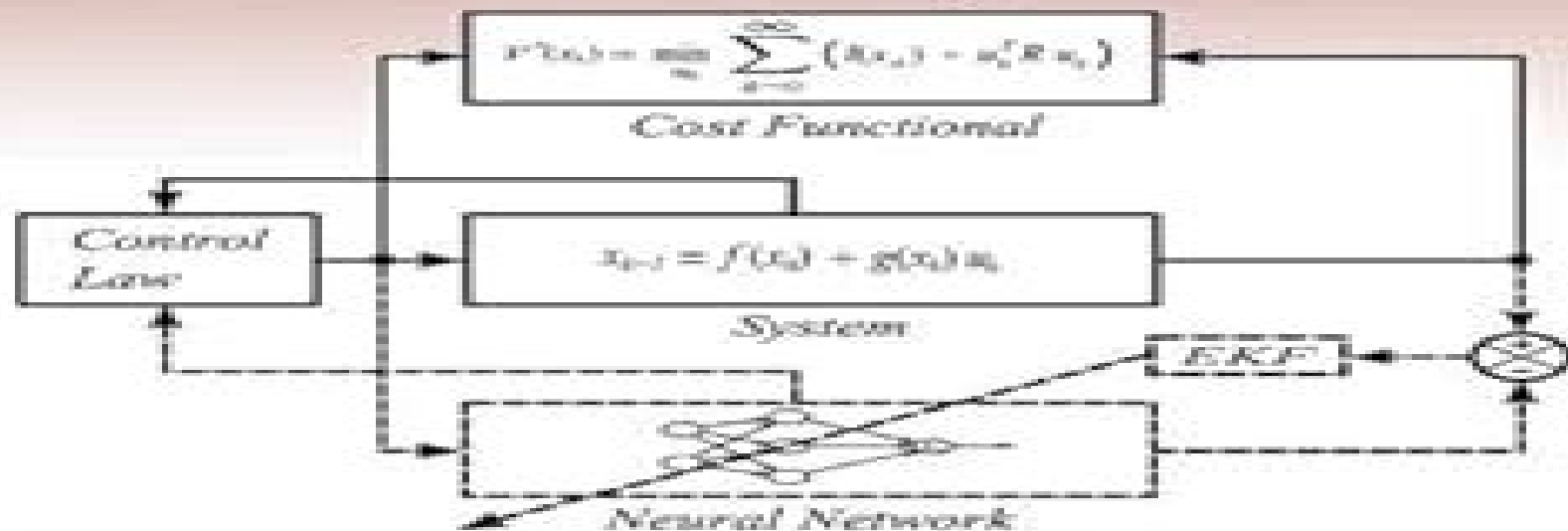


Discrete-Time Inverse Optimal Control for Nonlinear Systems



Edgar N. Sanchez • Fernando Ornelas-Tellez



CRC Press
Taylor & Francis Group

Discrete Time Inverse Optimal Control For Nonlinear Systems System Of Systems Engineering

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Ornelas-Tellez, 2017-12-19 Discrete Time Inverse Optimal Control for Nonlinear Systems proposes a novel inverse optimal control scheme for stabilization and trajectory tracking of discrete time nonlinear systems This avoids the need to solve the associated Hamilton Jacobi Bellman equation and minimizes a cost functional resulting in a more efficient controller Design More Efficient Controllers for Stabilization and Trajectory Tracking of Discrete Time Nonlinear Systems The book presents two approaches for controller synthesis the first based on passivity theory and the second on a control Lyapunov function CLF The synthesized discrete time optimal controller can be directly implemented in real time systems The book also proposes the use of recurrent neural networks to model discrete time nonlinear systems Combined with the inverse optimal control approach such models constitute a powerful tool to deal with uncertainties such as unmodeled dynamics and disturbances Learn from Simulations and an In Depth Case Study The authors include a variety of simulations to illustrate the effectiveness of the synthesized controllers for stabilization and trajectory tracking of discrete time nonlinear systems An in depth case study applies the control schemes to glycemic control in patients with type 1 diabetes mellitus to calculate the adequate insulin delivery rate required to prevent hyperglycemia and hypoglycemia levels The discrete time optimal and robust control techniques proposed can be used in a range of industrial applications from aerospace and energy to biomedical and electromechanical systems Highlighting optimal and efficient control algorithms this is a valuable resource for researchers engineers and students working in nonlinear system control

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aerospace and energy to biomedical and electromechanical systems Highlighting optimal and efficient control algorithms this is a valuable resource for researchers engineers and students working in nonlinear system control Emergent Behavior in System of Systems Engineering Larry B. Rainey,O.Thomas Holland,2022-08-05 This book compiles real world case studies on discovering understanding and engineering emergent behaviors in a computational environment across multiple application domains such as wargaming biology IoT disaster management and space architecting All the application domains are described through an undercurrent of System of Systems SoS engineering in conjunction with theoretical foundations required for engineering a Modeling and Simulation SoS capable of displaying valid emergent behavior An excellent read and state of the art in M the implications for the existence of emergent behavior the manifestation of emergent behavior and methods to either control emergent behavior assuming its effects are negative in nature or capitalize on emergent behavior given its effects are positive in nature System of Systems Modeling and Analysis Daniel A. DeLaurentis,Kushal Moolchandani,Cesare Guariniello,2022-12-05 System of Systems Modeling and Analysis provides the reader with motivation theory methodology and examples of modeling and analysis for system of system SoS problems In addition to theory this book contains history and conceptual definitions as well as the theoretical fundamentals of SoS modeling and analysis It then describes methods for SoS modeling and analysis including use of existing methodology and original work specifically oriented to SoS Providing a bridge between theory and practice for modeling and analysis of SoS this book includes generalized concepts and Methods Tools and Processes MTP applicable to SoS across any application domain Examples of application from various fields will be used to provide a practical demonstration of the use of the methodologies Features Offers a modern presentation of SoS principles and guided description of applying a modeling and analysis process to SoS engineering Provides additional modeling approaches useful for SoS engineering including agent based modeling Covers the current gap in literature between theory and modeling application Features examples of applications from various fields such as energy grids and regional transportation Includes questions examples and exercises at the end of each chapter This book is intended for senior undergraduate students in engineering programs studying SoS modeling SoS analysis and SoS engineering courses Professional engineers will also benefit from MTP and examples as a baseline for specific user applications **Netcentric System of Systems Engineering with DEVS Unified Process** Saurabh Mittal,José L. Risco Martín,2018-09-03 In areas such as military security aerospace and disaster management the need for performance optimization and interoperability among heterogeneous systems is increasingly important Model driven engineering a paradigm in which the model becomes the actual software offers a promising approach toward systems of systems SoS engineering However model driven engineering has largely been unachieved in complex dynamical systems and netcentric SoS partly because modeling and simulation M S frameworks are stove piped and not designed for SoS composability Addressing this gap Netcentric System of Systems Engineering with DEVS Unified Process presents a methodology for

realizing the model driven engineering vision and netcentric SoS using DEVS Unified Process DUNIP The authors draw on their experience with Discrete Event Systems Specification DEVS formalism System Entity Structure SES theory and applying model driven engineering in the context of a netcentric SoS They describe formal model driven engineering methods for netcentric M S using standards based approaches to develop and test complex dynamic models with DUNIP The book is organized into five sections Section I introduces undergraduate students and novices to the world of DEVS It covers systems and SoS M S as well as DEVS formalism software modeling language and DUNIP It also assesses DUNIP with the requirements of the Department of Defense s DoD Open Unified Technical Framework OpenUTF for netcentric Test and Evaluation T E Section II delves into M S based systems engineering for graduate students advanced practitioners and industry professionals It provides methodologies to apply M S principles to SoS design and reviews the development of executable architectures based on a framework such as the Department of Defense Architecture Framework DoDAF It also describes an approach for building netcentric knowledge based contingency driven systems Section III guides graduate students advanced DEVS users and industry professionals who are interested in building DEVS virtual machines and netcentric SoS It discusses modeling standardization the deployment of models and simulators in a netcentric environment event driven architectures and more Section IV explores real world case studies that realize many of the concepts defined in the previous chapters Section V outlines the next steps and looks at how the modeling of netcentric complex adaptive systems can be attempted using DEVS concepts It touches on the boundaries of DEVS formalism and the future work needed to utilize advanced concepts like weak and strong emergence self organization scale free systems run time modularity and event interoperability This groundbreaking work details how DUNIP offers a well structured platform independent methodology for the modeling and simulation of netcentric system of systems

Control and Systems Engineering Aly El-Osery, Jeff Prevost, 2015-03-19 This book is a tribute to 40 years of contributions by Professor Mo Jamshidi who is a well known and respected scholar researcher and educator Mo Jamshidi has spent his professional career formalizing and extending the field of large scale complex systems LSS engineering resulting in educating numerous graduates specifically ethnic minorities He has made significant contributions in modeling optimization CAD control and applications of large scale systems leading to his current global role in formalizing system of systems engineering SoSE as a new field His books on complex LSS and SoSE have filled a vacuum in cyber physical systems literature for the 21st Century His contributions to ethnic minority engineering education commenced with his work at the University of New Mexico UNM Tier I Hispanic Serving Institution in 1980 through a NASA JPL grant Followed by several more major federal grants he formalized a model for educating minorities called VI P Pyramid where K 12 students bottom of pyramid to doctoral top of pyramid students form a seamless group working on one project Upper level students mentor lower ones on a sequential basis Since 1980 he has graduated over 114 minority students consisting of 62 Hispanics 34 African Americans 15 Native Americans and 3 Pacific

Islanders This book contains contributed chapters from colleagues and former and current students of Professor Jamshidi
Areas of focus are control systems energy and system of systems robotics and soft computing **Transactions on
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book contains revised and extended research articles written by prominent researchers selected from presentations at the
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