

Zeroing Dynamics, Gradient Dynamics, and Newton Iterations

Yunong Zhang
Lin Xiao
Zhengli Xiao
Mingzhi Mao

Zeroing Dynamics Gradient Newton Iterations

**Xuefeng Zhou, Zhihao Xu, Shuai
Li, Hongmin Wu, Taobo Cheng, Xiaojing
Lv**

Zeroing Dynamics Gradient Newton Iterations:

Zeroing Dynamics, Gradient Dynamics, and Newton Iterations Yunong Zhang, Lin Xiao, Zhengli Xiao, Mingzhi Mao, 2018-10-09 Neural networks and neural dynamics are powerful approaches for the online solution of mathematical problems arising in many areas of science engineering and business Compared with conventional gradient neural networks that only deal with static problems of constant coefficient matrices and vectors the authors new method called zeroing dynamics solves time varying problems Zeroing Dynamics Gradient Dynamics and Newton Iterations is the first book that shows how to accurately and efficiently solve time varying problems in real time or online using continuous or discrete time zeroing dynamics The book brings together research in the developing fields of neural networks neural dynamics computer mathematics numerical algorithms time varying computation and optimization simulation and modeling analog and digital hardware and fractals The authors provide a comprehensive treatment of the theory of both static and dynamic neural networks Readers will discover how novel theoretical results have been successfully applied to many practical problems The authors develop analyze model simulate and compare zeroing dynamics models for the online solution of numerous time varying problems such as root finding nonlinear equation solving matrix inversion matrix square root finding quadratic optimization and inequality solving

Zhang-Gradient Control Yunong Zhang, Binbin Qiu, Xiaodong Li, 2020-11-24 This book introduces readers to using the simple but effective Zhang gradient ZG method to solve tracking control problems concerning various nonlinear systems while also highlighting the applications of the ZG method to tracking control for practical systems e g an inverted pendulum on a cart IPC system and a two wheeled mobile robot showing its potential applications In addition to detailed theoretical analyses of ZG controllers the book presents a wealth of computer simulations to demonstrate the feasibility and efficacy of the controllers discussed as well as the method itself More importantly the superiority of ZG controllers in overcoming the division by zero DBZ problem is also illustrated Given its scope and format the book is well suited for undergraduate and graduate students as well as academic and industrial researchers in the fields of neural dynamics neural networks nonlinear control computer mathematics time varying problem solving modeling and simulation analog hardware and robotics

Zeroing Neural Networks Lin Xiao, Lei Jia, 2022-11-09 Zeroing Neural Networks Describes the theoretical and practical aspects of finite time ZNN methods for solving an array of computational problems Zeroing Neural Networks ZNN have become essential tools for solving discretized sensor driven time varying matrix problems in engineering control theory and on chip applications for robots Building on the original ZNN model finite time zeroing neural networks FTZNN enable efficient accurate and predictive real time computations Setting up discretized FTZNN algorithms for different time varying matrix problems requires distinct steps Zeroing Neural Networks provides in depth information on the finite time convergence of ZNN models in solving computational problems Divided into eight parts this comprehensive resource covers modeling methods theoretical analysis computer simulations nonlinear activation

functions and more Each part focuses on a specific type of time varying computational problem such as the application of FTZNN to the Lyapunov equation linear matrix equation and matrix inversion Throughout the book tables explain the performance of different models while numerous illustrative examples clarify the advantages of each FTZNN method In addition the book Describes how to design analyze and apply FTZNN models for solving computational problems Presents multiple FTZNN models for solving time varying computational problems Details the noise tolerance of FTZNN models to maximize the adaptability of FTZNN models to complex environments Includes an introduction problem description design scheme theoretical analysis illustrative verification application and summary in every chapter Zeroing Neural Networks Finite time Convergence Design Analysis and Applications is an essential resource for scientists researchers academic lecturers and postgraduates in the field as well as a valuable reference for engineers and other practitioners working in neurocomputing and intelligent control

Zhang Time Discretization (ZTD) Formulas and Applications Yunong Zhang,Jinjin Guo,2024-08-07 This book aims to solve the discrete implementation problems of continuous time neural network models while improving the performance of neural networks by using various Zhang Time Discretization ZTD formulas The authors summarize and present the systematic derivations and complete research of ZTD formulas from special 3S ZTD formulas to general NS ZTD formulas These finally lead to their proposed discrete time Zhang neural network DTZNN algorithms which are more efficient accurate and elegant This book will open the door to scientific and engineering applications of ZTD formulas and neural networks and will be a major inspiration for studies in neural network modeling numerical algorithm design prediction and robot manipulator control The book will benefit engineers senior undergraduates graduate students and researchers in the fields of neural networks computer mathematics computer science artificial intelligence numerical algorithms optimization robotics and simulation modeling

Advances in Neural Networks - ISSN 2024 Xinyi Le,Zhijun Zhang,2024-07-06 This volume constitutes the refereed proceedings of the 18th International Symposium on Neural Networks ISSN 2024 held in Weihai China during 11 14 July 2024 The 59 full papers were carefully reviewed and selected from 82 submission They are categorized in the following sections Optimization Algorithms Adversarial Learning Transfer Learning and Deep Learning Signal Image and Video Processing Modeling Analysis and Implementation of Neural Networks Control Systems Robotics and Autonomous Driving Fault Diagnosis and Intelligent Industry Bio signal Bioinformatics and Biomedical Engineering

Advances in Neural Networks - ISSN 2017 Fengyu Cong,Andrew Leung,Qinglai Wei,2017-06-12 This book constitutes the refereed proceedings of the 14th International Symposium on Neural Networks ISSN 2017 held in Sapporo Hakodate and Muroran Hokkaido Japan in June 2017 The 135 revised full papers presented in this two volume set were carefully reviewed and selected from 259 submissions The papers cover topics like perception emotion and development action and motor control attractor and associative memory neurodynamics complex systems and chaos

Machine Learning Mohssen Mohammed,Muhammad Badruddin Khan,Eihab Bashier Mohammed

Bashier,2016-08-19 Machine learning one of the top emerging sciences has an extremely broad range of applications However many books on the subject provide only a theoretical approach making it difficult for a newcomer to grasp the subject material This book provides a more practical approach by explaining the concepts of machine learning algorithms and describing the areas of application for each algorithm using simple practical examples to demonstrate each algorithm and showing how different issues related to these algorithms are applied *AI based Robot Safe Learning and Control*

Xuefeng Zhou,Zhihao Xu,Shuai Li,Hongmin Wu,Taobo Cheng,Xiaojing Lv,2020-06-02 This open access book mainly focuses on the safe control of robot manipulators The control schemes are mainly developed based on dynamic neural network which is an important theoretical branch of deep reinforcement learning In order to enhance the safety performance of robot systems the control strategies include adaptive tracking control for robots with model uncertainties compliance control in uncertain environments obstacle avoidance in dynamic workspace The idea for this book on solving safe control of robot arms was conceived during the industrial applications and the research discussion in the laboratory Most of the materials in this book are derived from the authors papers published in journals such as IEEE Transactions on Industrial Electronics neurocomputing etc This book can be used as a reference book for researcher and designer of the robotic systems and AI based controllers and can also be used as a reference book for senior undergraduate and graduate students in colleges and universities

Neural & Bio-inspired Processing and Robot Control Huanqing Wang,2019-01-24 This Research Topic presents bio inspired and neurological insights for the development of intelligent robotic control algorithms This aims to bridge the inter disciplinary gaps between neuroscience and robotics to accelerate the pace of research and development

Neural Dynamics for Time-varying Problems Long Jin,Lin Wei,Xin Lv,2024-10-01 This book mainly presents methods based on neural dynamics for the time varying problems with applications together with the corresponding theoretical analysis simulative examples and physical experiments Based on these methods their applications include motion planning of redundant manipulators filter design winner take all operation multiple input multiple output system configuration multi linear tensor equation solving and manipulability optimization are also presented In this book we present the design proposal development analysis modeling and simulation of various neural dynamic models along with their respective applications including motion planning of redundant manipulators filter design winner take all operation multiple input multiple output system configuration multi linear tensor equation solving and manipulability optimization Specifically starting from the top level considerations of hardware implementation we integrate computational intelligence methods and control theory to design a series of dynamic and noise resistant discrete neural dynamic methods The research work not only owns the theoretical guarantee on its convergence noise resistance and accuracy but demonstrate the effectiveness and robustness in solving various optimization and equation solving problems particularly in handling time varying problems and noise perturbations Moreover by reducing complexity and avoiding matrix inversion operations the models feasibility and

practicality are further enhanced

This book delves into Zeroing Dynamics Gradient Newton Iterations. Zeroing Dynamics Gradient Newton Iterations is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Zeroing Dynamics Gradient Newton Iterations, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Zeroing Dynamics Gradient Newton Iterations in Everyday Life
 - Chapter 4: Zeroing Dynamics Gradient Newton Iterations in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Zeroing Dynamics Gradient Newton Iterations. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Zeroing Dynamics Gradient Newton Iterations.

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