

Zeroing Dynamics, Gradient Dynamics, and Newton Iterations

Yunong Zhang
Lin Xiao
Zhengli Xiao
Mingzhi Mao



CRC Press
Taylor & Francis Group

Zeroing Dynamics Gradient Newton Iterations

Tu-Bao Ho



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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 - ISNN 2024 Xinyi Le,Zhijun Zhang,2024-07-06 This volume constitutes the refereed proceedings of the 18th International Symposium on Neural Networks ISNN 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 - ISNN 2017** Fengyu Cong,Andrew Leung,Qinglai Wei,2017-06-12 This book constitutes the refereed proceedings of the 14th International Symposium on Neural Networks ISNN 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,Xiaoqing 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

PRICAI 2008: Trends in Artificial Intelligence Tu-Bao Ho, 2008-11-24 This book constitutes the refereed proceedings of the 10th Pacific Rim International Conference on Artificial Intelligence PRICAI 2008 held in Hanoi Vietnam in December 2008 The 49 revised long papers 33 revised regular papers and 32 poster papers presented together with 1 keynote talk and 3 invited lectures were carefully reviewed and selected from 234 submissions The papers address all current issues of modern AI research with topics such as AI foundations knowledge representation knowledge acquisition and ontologies evolutionary computation etc as well as various exciting and innovative applications of AI to many different areas Particular importance is attached to the areas of machine learning and data mining intelligent agents language and speech processing information retrieval and extraction

Scientific and Technical Aerospace Reports, 1984

Convergence and Applications of Newton-type Iterations Ioannis K. Argyros, 2008-06-12 Recent results in local convergence and semi local convergence analysis constitute a natural framework for the theoretical study of iterative methods This monograph provides a comprehensive study of both basic theory and new results in the area Each chapter contains new theoretical results and important applications in engineering modeling dynamic economic systems input output systems optimization problems and nonlinear and linear differential equations Several classes of operators are considered including operators without Lipschitz continuous derivatives operators with high order derivatives and analytic operators Each section is self contained Examples are used to illustrate the theory and exercises are included at the end of each chapter The book assumes a basic background in linear algebra and numerical functional analysis Graduate students and researchers will find this book useful It may be used as a self study reference or as a supplementary text for an advanced course in numerical functional analysis

A Combined Newton-Raphson and Gradient Parameter Correction

Technique for Solution of Optimal-control Problems Ernest S. Armstrong,1968 On the Convergence of the Newton Iteration K. Veselić,2018 We give a new class of convergence criteria for the classical Newton method for the equation 0 We prove the global convergence if the function is the gradient of a convex function while the convergence in the general case is still open Our convergence condition consists of only one bound with a constant which is shown to be sharp We apply our result to a generic variational problem as well to uniformly diagonally dominant Hessians The convergence result is extended to the cases where the derivative is defined merely as a distribution Convergence of Newton's Method for a Single Real Equation C. Warren Campbell,1985 **Advances in Iterative Methods for Nonlinear Equations** Sergio Amat,Sonia Busquier,2018-05-03 This book focuses on the approximation of nonlinear equations using iterative methods Nine contributions are presented on the construction and analysis of these methods the coverage encompassing convergence efficiency robustness dynamics and applications Many problems are stated in the form of nonlinear equations using mathematical modeling In particular a wide range of problems in Applied Mathematics and in Engineering can be solved by finding the solutions to these equations The book reveals the importance of studying convergence aspects in iterative methods and shows that selection of the most efficient and robust iterative method for a given problem is crucial to guaranteeing a good approximation A number of sample criteria for selecting the optimal method are presented including those regarding the order of convergence the computational cost and the stability including the dynamics This book will appeal to researchers whose field of interest is related to nonlinear problems and equations and their approximation **New Developments of Newton-type Iterations for Solving Nonlinear Problems** Tugaly Zhanlav,Ochbadrakhyn Chuluunbaatar,2022

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