

Zeroing Dynamics, Gradient Dynamics, and Newton Iterations

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Zeroing Dynamics Gradient Newton Iterations

**Fengyu Cong, Andrew Leung, Qinglai
Wei**



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 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

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

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

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

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

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** Tugalyň Zhanlav, Ochbadrakhyn Chuluunbaatar, 2022

Unveiling the Magic of Words: A Overview of "**Zeroing Dynamics Gradient Newton Iterations**"

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