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Computational Neural Networks For Geophysical Data Processing

Saeid Eslamian



Computational Neural Networks For Geophysical Data Processing:

Computational Neural Networks for Geophysical Data Processing M.M. Poulton, 2001-06-13 This book was primarily written for an audience that has heard about neural networks or has had some experience with the algorithms but would like to gain a deeper understanding of the fundamental material For those that already have a solid grasp of how to create a neural network application this work can provide a wide range of examples of nuances in network design data set design testing strategy and error analysis Computational rather than artificial modifiers are used for neural networks in this book to make a distinction between networks that are implemented in hardware and those that are implemented in software The term artificial neural network covers any implementation that is inorganic and is the most general term Computational neural networks are only implemented in software but represent the vast majority of applications While this book cannot provide a blue print for every conceivable geophysics application it does outline a basic approach that has been used successfully

Computational neural networks for geophysical data processing Mary M. Poulton, 2001 **Soft Computing for Reservoir Characterization and Modeling** Patrick Wong, Fred Aminzadeh, Masoud Nikravesh, 2013-11-11 In the middle of the 20th century Genrich Altshuller a Russian engineer analysed hundreds of thousands of patents and scientific publications From this analysis he developed TRIZ G Altshuller 40 Principles TRIZ Keys to Technical Innovation TRIZ Tools Volume 1 First Edition Technical Innovation Center Inc Worcester MA January 1998 Y Salamatov TRIZ The Right Solution at the Right Time A Guide to Innovative Problem Solving Insytec B V 1999 the theory of inventive problem solving together with a series of practical tools for helping engineers solving technical problems Among these tools and theories the substance field theory gives a structured way of representing problems the patterns of evolution show the lifecycle of technical systems the contradiction matrix tells you how to resolve technical contradictions using the forty principles that describe common ways of improving technical systems For example if you want to increase the strength of a device without adding too much extra weight to it the contradiction matrix tells you that you can use Principle 1 Segmentation or Principle 8 Counterweight or Principle 15 Dynamicity or Principle 40 Composite Materials I really like two particular ones Principle 1 Segmentation and Principle 15 Dynamicity Segmentation shows how systems evolve from an initial monolithic form into a set of independent parts then eventually increasing the number of parts until each part becomes small enough that it cannot be identified anymore

Seismic Geomorphology R. J. Davies, 2007 We are poised to embark on a new era of discovery in the study of geomorphology The discipline has a long and illustrious history but in recent years an entirely new way of studying landscapes and seascapes has been developed It involves the use of 3D seismic data Just as CAT scans allow medical staff to view our anatomy in 3D seismic data now allows Earth scientists to do what the early geomorphologists could only dream of view tens and hundreds of square kilometres of the Earth's subsurface in 3D and therefore see for the first time how landscapes have evolved through time This volume demonstrates how Earth scientists are starting to use this relatively new

tool to study the dynamic evolution of a range of sedimentary environments Meta-attributes and Artificial Networking Kalachand Sain, Priyadarshi Chinmoy Kumar, 2022-06-24 Applying machine learning to the interpretation of seismic data Seismic data gathered on the surface can be used to generate numerous seismic attributes that enable better understanding of subsurface geological structures and stratigraphic features With an ever increasing volume of seismic data available machine learning augments faster data processing and interpretation of complex subsurface geology Meta Attributes and Artificial Networking A New Tool for Seismic Interpretation explores how artificial neural networks can be used for the automatic interpretation of 2D and 3D seismic data Volume highlights include Historic evolution of seismic attributes Overview of meta attributes and how to design them Workflows for the computation of meta attributes from seismic data Case studies demonstrating the application of meta attributes Sets of exercises with solutions provided Sample data sets available for hands on exercises The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Coding and Decoding: Seismic Data Luc T. Ikelle, 2010-03-29 Currently the acquisition of seismic surveys is performed as a sequential operation in which shots are computed separately one after the other This approach is similar to that of multiple access technology which is widely used in cellular communications to allow several subscribers to share the same telephone line The cost of performing various shots simultaneously is almost identical to that of one shot thus the savings in time and money expected from using the multishooting approach for computing seismic surveys compared to the current approach are enormous By using this approach the long standing problem of simulating a three dimensional seismic survey can be reduced to a matter of weeks and not years as is currently the case Investigates how to collect stimulate and process multishooting data Addresses the improvements in seismic characterization and resolution one can expect from multishooting data Aims to educate the oil and gas exploration and production business of the benefits of multishooting data and to influence their day to day surveying techniques **Engineering Applications of Neural Networks** Lazaros S. Iliadis, Harris Papadopoulos, Chrisina Jayne, 2013-09-25 The two volumes set CCIS 383 and 384 constitutes the refereed proceedings of the 14th International Conference on Engineering Applications of Neural Networks EANN 2013 held on Halkidiki Greece in September 2013 The 91 revised full papers presented were carefully reviewed and selected from numerous submissions The papers describe the applications of artificial neural networks and other soft computing approaches to various fields such as pattern recognition predictors soft computing applications medical applications of AI fuzzy inference evolutionary algorithms classification learning and data mining control techniques aspects of AI evolution image and video analysis classification pattern recognition social media and community based governance medical applications of AI bioinformatics and learning **Seismic Waves and Rays in Elastic Media** Michael A. Slawinski, 2003 This book seeks to explore seismic phenomena in elastic media and emphasizes the interdependence of mathematical

formulation and physical meaning The purpose of this title which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology is to use aspects of continuum mechanics wave theory and ray theory to describe phenomena resulting from the propagation of waves The book is divided into three parts Elastic continua Waves and rays and Variational formulation of rays In Part I continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such material In Part II these equations are used to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua the high frequency approximation is used and establishes the concept of a ray In Part III it is shown that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary travel time Handbook of Engineering Hydrology (Three-Volume Set) Saeid

Eslamian,2018-10-03 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological connectivity and considers the worldwide impact of climate change **Basic Theory in Reflection Seismology** J.K. Costain,C. Coruh,2004-10-27 The material in this volume provides

the basic theory necessary to understand the principles behind imaging the subsurface of the Earth using reflection and refraction seismology For reflection seismology the end product is a record section from a collection of wiggly traces that are recorded in the field from which information about the properties of subsurface structure and rock can be derived For the most part the principles of imaging are the same regardless of the depth to the target the same mathematical background is necessary for targeting a shallow water table as for investigating the base of the earth s continental crust at a depth of 30 50 km

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