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# Computational Neural Networks for Geophysical Data Processing

edited by M.M. POULTON

PERGAMON

# Computational Neural Networks For Geophysical Data Processing

**Huangqi Zhang**



## **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

**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

**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

**Soft Computing and Intelligent Data Analysis in Oil Exploration** M. Nikravesh,L.A. Zadeh,Fred Aminzadeh,2003-04-22 This comprehensive book highlights soft computing and geostatistics applications in hydrocarbon exploration and production combining practical and theoretical aspects It spans a wide spectrum of applications in the oil industry crossing many discipline boundaries such as geophysics geology petrophysics and reservoir engineering It is complemented by several tutorial chapters on fuzzy logic neural networks and genetic algorithms and geostatistics to introduce these concepts to the uninitiated The application areas include prediction of reservoir properties porosity sand thickness lithology fluid seismic processing seismic and bio stratigraphy time lapse seismic and core analysis There is a good balance between introducing soft computing and geostatistics methodologies that are not routinely used in the petroleum industry and various applications areas The book can be used by many practitioners such as processing geophysicists seismic interpreters geologists reservoir engineers petrophysicist geostatisticians asset managers and technology application professionals It will also be of interest to academics to assess the importance of and contribute to R D efforts in relevant areas

*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

**Geophysical Applications of Artificial Neural Networks and Fuzzy Logic** W. Sandham,M. Leggett,2013-06-29 The past fifteen years has witnessed an explosive growth in the

fundamental research and applications of artificial neural networks ANNs and fuzzy logic FL The main impetus behind this growth has been the ability of such methods to offer solutions not amenable to conventional techniques particularly in application domains involving pattern recognition prediction and control Although the origins of ANNs and FL may be traced back to the 1940s and 1960s respectively the most rapid progress has only been achieved in the last fifteen years This has been due to significant theoretical advances in our understanding of ANNs and FL complemented by major technological developments in high speed computing In geophysics ANNs and FL have enjoyed significant success and are now employed routinely in the following areas amongst others 1 Exploration Seismology a Seismic data processing trace editing first break picking deconvolution and multiple suppression wavelet estimation velocity analysis noise identification reduction statics analysis dataset matching prediction attenuation b AVO analysis c Chimneys d Compression I dimensionality reduction e Shear wave analysis f Interpretation event tracking lithology prediction and well log analysis prospect appraisal hydrocarbon prediction inversion reservoir characterisation quality assessment tomography 2 Earthquake Seismology and Subterranean Nuclear Explosions 3 Mineral Exploration 4 Electromagnetic I Potential Field Exploration a Electromagnetic methods b Potential field methods c Ground penetrating radar d Remote sensing e inversion

**Posthumanism in the Age of Humanism** Edgar Landgraf, Gabriel Trop, Leif Weatherby, 2018-10-04 The literary and scientific renaissance that struck Germany around 1800 is usually taken to be the cradle of contemporary humanism Posthumanism in the Age of Humanism shows how figures like Immanuel Kant and Johann Wolfgang Goethe as well as scientists specializing in the emerging modern life and cognitive sciences not only established but also transgressed the boundaries of the human This period so broadly painted as humanist by proponents and detractors alike also grappled with ways of challenging some of humanism's most cherished assumptions the dualisms for example between freedom and nature science and art matter and spirit mind and body and thereby also between the human and the nonhuman Posthumanism is older than we think and the so called humanists of the late Enlightenment have much to offer our contemporary re thinking of the human

*Basics of Computational Geophysics* Pijush Samui, Barnali Dixon, Dieu Tien Bui, 2020-11-27 Basics of Computational Geophysics provides a one stop collective resource for practitioners on the different techniques and models in geoscience their practical applications and case studies The reference provides the modeling theory in an easy to read format that is verified with onsite models for specific regions and scenarios including the use of big data and artificial intelligence This book offers a platform whereby readers will learn theory practical applications and the comparison of real world problems surrounding geomechanics modeling and optimizations Covers various advanced computational techniques for solving different problems in geophysics including the use of Big Data and artificial intelligence Includes case studies that provide examples surrounding practical applications Provides an assessment of the capabilities of commercial software

*Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation* P.C.H. Veeken, 2006-11-13 The interest in seismic stratigraphic

techniques to interpret reflection datasets is well established The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimising the hydrocarbon production in existing fields does demonstrate the importance of the 3D seismic methodology The added value of reflection seismics to the petroleum industry has clearly been proven over the last decades Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure of the subsurface It gets nowadays exploited in ever greater detail Larger offsets and velocity anisotropy effects give for instance access to more details on reservoir flow properties like fracture density porosity and permeability distribution Elastic inversion and modelling may tell something about the change in petrophysical parameters Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps They are the basis for understanding the regional basin framework and the stratigraphic subdivision Seismic stratigraphy combines two very different scales of observation the seismic and well control The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations The here presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of sedimentary environments are discussed with its relation to global controlling factors and a link is made to high resolution sequence stratigraphy Seismic Stratigraphy Basin Analysis and Reservoir Characterisation summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader student as well as professional geophysicists geologists and reservoir engineers is taken from a basic level to more advanced study techniques Overview reflection seismic methods and its limitations Link between basic seismic stratigraphic principles and high resolution sequence stratigraphy Description of various techniques for seismic reservoir characterization and synthetic modelling Overview nversion techniques AVO and seismic attributes analysis

**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 **The Earth's Magnetic Interior** Eduard Petrovský,Emilio Herrero-Bervera,T

Harinarayana, David Ivers, 2011-06-11 This volume combines review and solicited contributions related to scientific studies of Division I of IAGA presented at its Scientific Assembly in Sopron in 2009 The book is aimed at intermediate to advanced readers dealing with the Earth's magnetic field generation its historical records in rocks and geological formations including links to geodynamics and magnetic dating with magnetic carriers in earth materials electromagnetic induction and conductivity studies of the Earth interior with environmental applications of rock magnetism and electromagnetism The aim of the book is to provide an overview of recent advances and future challenges in these particular fields of research

Near-surface Geophysics Dwain K. Butler, 2005 Part 1 fundamentals includes magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 applications includes determination of physical properties multimethod surveys and integrated interpretations and model based survey planning execution and interpretation

*Signal and Image Processing for Remote Sensing* C.H. Chen, 2024-06-11 Advances in signal and image processing for remote sensing have been tremendous in recent years The progress has been particularly significant with the use of deep learning based techniques to solve remote sensing problems These advancements are the focus of this third edition of *Signal and Image Processing for Remote Sensing* It emphasizes the use of machine learning approaches for the extraction of remote sensing information Other topics include change detection in remote sensing and compressed sensing With 19 new chapters written by world leaders in the field this book provides an authoritative examination and offers a unique point of view on signal and image processing Features Includes all new content and does not replace the previous edition Covers machine learning approaches in both signal and image processing for remote sensing Studies deep learning methods for remote sensing information extraction that is found in other books Explains SAR microwave seismic GPR and hyperspectral sensors and all sensors considered Discusses improved pattern classification approaches and compressed sensing approaches Provides ample examples of each aspect of both signal and image processing This book is intended for university academics researchers postgraduate students industry and government professionals who use remote sensing and its applications

#### **Applications of Data Management and Analysis**

Mohammad Moshirpour, Behrouz H. Far, Reda Alhaji, 2018-10-04 This book addresses and examines the impacts of applications and services for data management and analysis such as infrastructure platforms software and business processes on both academia and industry The chapters cover effective approaches in dealing with the inherent complexity and increasing demands of big data management from an applications perspective Various case studies included have been reported by data analysis experts who work closely with their clients in such fields as education banking and telecommunications Understanding how data management has been adapted to these applications will help students instructors and professionals in the field Application areas also include the fields of social network analysis bioinformatics and the oil and gas industries

#### **Emerging AI Applications in Earth Sciences** Chander Prabha, Md. Mehedi

Hassan,Farhana Yasmin,Asif Karim,2025-08-03 This proposed book provides deeper insights into artificial intelligence techniques and procedures available for earth sciences This book unveils several applications of metaheuristic approaches i e swarm intelligence and IoT technologies in collaboration with AI for earth sciences It presents the science behind smart technologies that reveal the power of artificial intelligence and IoT These methodologies help to extract meaningful insights from earth sciences big data analytics These advanced technologies used in earth science practices can remove geographical barriers locally adaptive operationally feasible and economically affordable The areas can be explored with the aim of digitizing the whole world Technological advancement also impacts the financial aspect involved in managing the earth sciences Intelligent AI applications have made significant strides in the field of earth sciences offering novel solutions to complex challenges driving impactful research and revolutionizing data analysis and interpretation This intersection of artificial intelligence and earth sciences has paved the way for an enhanced understanding of our planet and its various phenomena

**Interactive Data Processing and 3D Visualization of the Solid Earth** Daniel Patel,2022-02-21 This book presents works detailing the application of processing and visualization techniques for analyzing the Earth s subsurface The topic of the book is interactive data processing and interactive 3D visualization techniques used on subsurface data Interactive processing of data together with interactive visualization is a powerful combination which has in the recent years become possible due to hardware and algorithm advances in The combination enables the user to perform interactive exploration and filtering of datasets while simultaneously visualizing the results so that insights can be made immediately This makes it possible to quickly form hypotheses and draw conclusions Case studies from the geosciences are not as often presented in the scientific visualization and computer graphics community as e g studies on medical biological or chemical data This book will give researchers in the field of visualization and computer graphics valuable insight into the open visualization challenges in the geosciences and how certain problems are currently solved using domain specific processing and visualization techniques Conversely readers from the geosciences will gain valuable insight into relevant visualization and interactive processing techniques Subsurface data has interesting characteristics such as its solid nature large range of scales and high degree of uncertainty which makes it challenging to visualize with standard methods It is also noteworthy that parallel fields of research have taken place in geosciences and in computer graphics with different terminology when it comes to representing geometry describing terrains interpolating data and example based synthesis of data The domains covered in this book are geology digital terrains seismic data reservoir visualization and CO2 storage The technologies covered are 3D visualization visualization of large datasets 3D modelling machine learning virtual reality seismic interpretation and multidisciplinary collaboration People within any of these domains and technologies are potential readers of the book

Encyclopedia of Solid Earth Geophysics Harsh Gupta,2011-06-29 The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on This development



addresses the challenging endeavor to enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework which other allied disciplines utilize for more specific investigations The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company More than two decades later this new volume edited by Prof Harsh K Gupta represents a thoroughly revised and expanded reference work It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub disciplines such as Gravity Geodesy Geomagnetism Seismology Seismics Deep Earth Processes Plate Tectonics Thermal Domains Computational Methods etc in a systematic and consistent format and standard It is an authoritative and current reference source with extraordinary width of scope It draws its unique strength from the expert contributions of editors and authors across the globe It is designed to serve as a valuable and cherished source of information for current and future generations of professionals      *Scientific and Technical Aerospace Reports*  
,1995

## Reviewing **Computational Neural Networks For Geophysical Data Processing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Computational Neural Networks For Geophysical Data Processing**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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