



ARTIFICIAL NEURAL NETWORKS FOR CIVIL ENGINEERS: Advanced Features and Applications

Edited by

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Artificial Neural Networks For Civil Engineers Advanced Features And Applications

Chi Leung Patrick Hui



Artificial Neural Networks For Civil Engineers Advanced Features And Applications:

Artificial Neural Networks for Civil Engineers Ian Flood, Nabil Kartam, American Society of Civil Engineers. Expert Systems and Artificial Intelligence Committee, 1998-01-01 Artificial neural networks represent a broad and rapidly developing technology featuring new systems and novel ways of applying established systems This monograph illustrates advanced methods and recent developments in applying artificial neural network concepts in civil engineering

Artificial Neural Networks for Civil Engineers Ian Flood, Nabil Kartam, 1998-01-01 Sponsored by the Committee on Expert Systems and Artificial Intelligence of the Technical Council on Computer Practices of ASCE This report illustrates advanced methods and new developments in the application of artificial neural networks to solve problems in civil engineering Topics include evaluating new construction technologies using multi layered artificial neural network architecture to overcome problems with conventional traffic signal control systems increasing the computational efficiency of an optimization model predicting carbonation depth in concrete structures detecting defects in concrete piles analyzing pavement systems using neural network hybrids to select the most appropriate bidders for a construction project and predicting the Energy Performance Index of residential buildings Many of the ideas and techniques discussed in this book cross across disciplinary boundaries and therefore should be of interest to all civil engineers

Intelligent and Soft Computing in Infrastructure Systems Engineering Kasthurirangan Gopalakrishnan, Halil Ceylan, Nii O. Attah-Okine, 2009-11-19 The term soft computing applies to variants of and combinations under the four broad categories of evolutionary computing neural networks fuzzy logic and Bayesian statistics Although each one has its separate strengths the complementary nature of these techniques when used in combination hybrid makes them a powerful alternative for solving complex problems where conventional mathematical methods fail The use of intelligent and soft computing techniques in the field of geotechnical and pavement engineering has steadily increased over the past decade owing to their ability to admit approximate reasoning imprecision uncertainty and partial truth Since real life infrastructure engineering decisions are made in ambiguous environments that require human expertise the application of soft computing techniques has been an attractive option in pavement and geomechanical modeling The objective of this carefully edited book is to highlight key recent advances made in the application of soft computing techniques in pavement and geotechnical systems Soft computing techniques discussed in this book include but are not limited to neural networks evolutionary computing swarm intelligence probabilistic modeling kernel machines knowledge discovery and data mining neuro fuzzy systems and hybrid approaches Highlighted application areas include infrastructure materials modeling pavement analysis and design rapid interpretation of nondestructive testing results porous asphalt concrete distress modeling model parameter identification pavement engineering inversion problems soil grade soils characterization and backcalculation of pavement layer thickness and moduli

Advanced Applications for Artificial Neural Networks Adel El-Shahat, 2018-02-28 In this book highly qualified multidisciplinary scientists grasp their recent

researches motivated by the importance of artificial neural networks It addresses advanced applications and innovative case studies for the next generation optical networks based on modulation recognition using artificial neural networks hardware ANN for gait generation of multi legged robots production of high resolution soil property ANN maps ANN and dynamic factor models to combine forecasts ANN parameter recognition of engineering constants in Civil Engineering ANN electricity consumption and generation forecasting ANN for advanced process control ANN breast cancer detection ANN applications in biofuels ANN modeling for manufacturing process optimization spectral interference correction using a large size spectrometer and ANN based deep learning solar radiation ANN prediction using NARX model and ANN data assimilation for an atmospheric general circulation model *Artificial Neural Networks* Kenji Suzuki,2013-01-16 Artificial neural networks may probably be the single most successful technology in the last two decades which has been widely used in a large variety of applications The purpose of this book is to provide recent advances of architectures methodologies and applications of artificial neural networks The book consists of two parts the architecture part covers architectures design optimization and analysis of artificial neural networks the applications part covers applications of artificial neural networks in a wide range of areas including biomedical industrial physics and financial applications Thus this book will be a fundamental source of recent advances and applications of artificial neural networks The target audience of this book includes college and graduate students and engineers in companies Artificial Neural Networks Chi Leung Patrick Hui,2011-04-11 This book covers 27 articles in the applications of artificial neural networks ANN in various disciplines which includes business chemical technology computing engineering environmental science science and nanotechnology They modeled the ANN with verification in different areas They demonstrated that the ANN is very useful model and the ANN could be applied in problem solving and machine learning This book is suitable for all professionals and scientists in understanding how ANN is applied in various areas **Advances in Computational Intelligence and Communication Technology** Xiao-Zhi Gao,Shailesh Tiwari,Munesh C. Trivedi,Krishn K. Mishra,2020-06-18 This book features high quality papers presented at the International Conference on Computational Intelligence and Communication Technology CICT 2019 organized by ABES Engineering College Ghaziabad India and held from February 22 to 23 2019 It includes the latest advances and research findings in fields of computational science and communication such as communication networking web informatics hardware and software designs distributed parallel processing advanced software engineering advanced database management systems and bioinformatics As such it is of interest to research scholars students and engineers around the globe Methodologies for Service Life Prediction of Buildings Ana Silva,Jorge de Brito,Pedro Lima Gaspar,2016-04-28 Presenting an analysis of different approaches for predicting the service life of buildings this monograph discusses various statistical tools and mathematical models some of which have rarely been applied to the field It explores methods including deterministic factorial stochastic and computational models and applies these to facade claddings The models allow identification of

patterns of degradation ii estimation of service life iii analysis of loss of performance using probability functions and iv estimation of service life using a probability distribution The final chapter discusses the differences between the different methodologies and their advantages and limitations The authors also argue that a better understanding of the service life of buildings results in more efficient building maintenance and reduced environmental costs It not only provides an invaluable resource to students researchers and industry professionals interested in service life prediction and sustainable construction but is also of interest to environmental and materials scientists

New Advances in Soft Computing in Civil

Engineering Gebrail Bekdaş, Sinan Melih Nigdeli, 2024-08-07 Soft computing applications plays a crucial role in civil engineering applications with engineers striving to create outstanding designs that prioritize safety aesthetics cost efficiency and environmental considerations Advanced optimization techniques are especially valuable for complex systems including multi constraint problems multi objective problems and control problems needing iterative processes in solving differential equations Throughout history people have used their creativity to enhance designs in everyday tasks and this is where metaheuristics come into play drawing inspiration from nature to develop novel algorithms These artificial intelligence based algorithms possess distinctive attributes and leveraging various features from different algorithms can enhance the effectiveness of optimization improving precision computational efficiency and convergence This book serves as a timely resource summarizing the latest advancements in civil engineering optimization encompassing both metaheuristic approaches and emerging trends that integrates artificial intelligence and machine learning techniques to predict optimal solutions streamlining lengthy optimization processes The book's chapters cover a wide range of civil engineering applications with the primary goal being to introduce fundamental concepts and advanced adaptations This comprehensive resource is designed to provide undergraduates and graduate engineering students with a solid understanding of materials and content making it a valuable reference for university courses in various civil engineering disciplines The book will be edited and the editors will contribute to most of the chapters Depending on the availability of high quality papers the editors may increase their contributions by sharing recent research projects and postgraduate students theses

7th

International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'09) Yves

Demazeau, Juan Pavón, Juan Manuel Corchado Rodríguez, Javier Bajo, 2009-03-08 PAAMS the International Conference on Practical Applications of Agents and Multi Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi Agent Systems PAAMS is an international yearly tribune to present to discuss and to disseminate the latest developments and the most important outcomes related to real world applications It provides a unique opportunity to bring multi disciplinary experts academics and practitioners together to exchange their experience in the development of Agents and Multi Agent Systems This volume presents the papers that have been accepted for the 2009 edition These articles capture the most innovative results and this year's trends Assisted Cognition E Commerce Grid

Computing Human Modelling Information Systems Knowledge Management Agent Based Simulation Software Development Transports Trust and Security Each paper has been reviewed by three different reviewers from an international committee composed of 64 members from 20 different countries From the 92 submissions received 35 were selected for full presentation at the conference and 26 were accepted as posters *Bio-Inspired Models of Network, Information, and Computing Systems* Gianni A. Di Caro, Guy Theraulaz, 2014-07-08 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Bio Inspired Models of Network Information and Computing Systems Bionetics 2012 held in Lugano Switzerland in December 2012 The 23 revised full papers presented were carefully reviewed and selected from 40 submissions They cover topics such as networking robotics and neural networks molecular scale and bioinformatics optimization and bio inspired modeling in various fields Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science Panda, Mrutyunjaya, Misra, Harekrishna, 2021-01-08 In today's digital world the huge amount of data being generated is unstructured messy and chaotic in nature Dealing with such data and attempting to unfold the meaningful information can be a challenging task Feature engineering is a process to transform such data into a suitable form that better assists with interpretation and visualization Through this method the transformed data is more transparent to the machine learning models which in turn causes better prediction and analysis of results Data science is crucial for the data scientist to assess the trade offs of their decisions regarding the effectiveness of the machine learning model implemented Investigating the demand in this area today and in the future is a necessity The Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science provides an in depth analysis on both the theoretical and the latest empirical research findings on how features can be extracted and transformed from raw data The chapters will introduce feature engineering and the recent concepts methods and applications with the use of various data types as well as examine the latest machine learning applications on the data While highlighting topics such as detection tracking selection techniques and prediction models using data science this book is ideally intended for research scholars big data scientists project developers data analysts and computer scientists along with practitioners researchers academicians and students interested in feature engineering and its impact on data SURGE ANALYSIS AND THE WAVE PLAN METHOD Srinivasa Lingireddy, Don J. Wood, 2021-06-14 The book describes the causes and effects of transient water hammer events in liquid filled pipes and describes how the powerful and stable Wave Plan Method WPM can be used to address transients during surge modeling The authors compare and contrast WPM with the Method of Characteristics MOC which is the other widely used surge analysis tool While MOC can be useful for many situations the larger and more complex a model becomes the more the computational efficiency of WPM is necessary to avoid longer and longer analysis times The authors also describe how WPM is more generalizable than MOC which is a term that describes a suite of tools consisting of several variants that were developed to address different modeling situations This book provides

details on surge modeling in general and the use of WPM in particular This includes pressure attenuation determination of wave speeds in different pipe types and various liquid media pump and turbine characteristics curves and the effects of boundary conditions The discussion of boundary conditions includes an extensive look at the effects of the air water interface as it applies to bulk air intrusion into pipelines and as it relates to the use of air vacuum valves as surge protection The authors discuss surge protection design for different real world scenarios and how to model of a full list of surge control devices including a detailed discussion of check valves Last the book describes the assumptions and uncertainties encountered during data collection and model building and examines the potential effect of these uncertainties Where uncertainties cannot be mitigated the authors discuss ways to increase the safety factor of surge protection designs

Transactions of the American Society of Civil Engineers American Society of Civil Engineers,2006 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 **Applications of Artificial Neural Networks and Machine Learning in Civil Engineering** Ali Kaveh,2024-07-29 This book provides different applications of artificial neural networks ANN and machine learning ML in various problems of material science structural optimization and optimal analysis of structures in twenty two chapters Nowadays the world has witnessed unprecedented advances in technology and computer science Artificial intelligence has emerged as a top field captivating global attention Often referred to as AI this technology stands apart from other disciplines as it aims to design machines and systems that exhibit intelligence learn autonomously and make decisions akin to humans In order to comprehend the impact of this innovation one must delve into the workings of artificial intelligence trace its historical evolution from inception to the present day and explore its diverse applications in domains like medicine transportation broadcasting and marketing Artificial intelligence introduces a transformative element to our reality fostering significant breakthroughs and innovations The book is used in any AI course in particular in Civil Engineering It is also utilized in various fields of Industrial Civil Engineering *Near-surface Geophysics* Dwain K. Butler,2005 Near Surface Geophysics SEG Investigations in Geophysics Series No 13 presents concepts and fundamentals of near surface geophysics in Part 1 and applications and case histories in Part 2 Dedicated to Stanley H Ward Near Surface Geophysics updates and extends the scope of his landmark three volume book Geotechnical and Environmental Geophysics published by SEG in 1990 Part 1 of Near Surface Geophysics contains innovative material on magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 emphasizes the determination of physical properties the prevalence of multimethod surveys and integrated interpretations and the increasing use of model based survey planning execution and interpretation Near Surface Geophysics a peer reviewed book will be of interest to practitioners and students *Database Systems for Advanced Applications* Jayant R. Haritsa,2008-02-29 This book constitutes the refereed proceedings of the 13th International Conference on Database Systems for Advanced Applications

DASFAA 2008 held in New Delhi India in March 2008 The 30 revised full papers and 27 revised short papers presented together with the abstracts of 3 invited talks as well as 8 demonstration papers and a panel discussion motivation were carefully reviewed and selected from 173 submissions The papers are organized in topical sections on XML schemas data mining spatial data indexes and cubes data streams P2P and transactions XML processing complex pattern processing IR techniques queries and transactions data mining XML databases data warehouses and industrial applications as well as mobile and distributed data

Metaheuristic Optimization Algorithms in Civil Engineering: New Applications Ali Kaveh, Armin Dadras Eslamlou, 2020-04-14 This book discusses the application of metaheuristic algorithms in a number of important optimization problems in civil engineering Advances in civil engineering technologies require greater accuracy efficiency and speed in terms of the analysis and design of the corresponding systems As such it is not surprising that novel methods have been developed for the optimal design of real world systems and models with complex configurations and large numbers of elements This book is intended for scientists engineers and students wishing to explore the potential of newly developed metaheuristics in practical problems It presents concepts that are not only applicable to civil engineering problems but can also be used for optimizing problems related to mechanical electrical and industrial engineering It is an essential resource for civil mechanical and electrical engineers who use optimization methods for design as well as for students and researchers interested in structural optimization

Biologically-Inspired Techniques for Knowledge Discovery and Data Mining Alam, Shafiq, Dobbie, Gillian, Koh, Yun Sing, ur Rehman, Saeed, 2014-05-31 Biologically inspired data mining has a wide variety of applications in areas such as data clustering classification sequential pattern mining and information extraction in healthcare and bioinformatics Over the past decade research materials in this area have dramatically increased providing clear evidence of the popularity of these techniques Biologically Inspired Techniques for Knowledge Discovery and Data Mining exemplifies prestigious research and shares the practices that have allowed these areas to grow and flourish This essential reference publication highlights contemporary findings in the area of biologically inspired techniques in data mining domains and their implementation in real life problems Providing quality work from established researchers this publication serves to extend existing knowledge within the research communities of data mining and knowledge discovery as well as for academicians and students in the field

Ecological Informatics Friedrich Recknagel, 2013-06-29 Ecological Informatics is defined as the design and application of computational techniques for ecological analysis synthesis forecasting and management The book provides an introduction to the scope concepts and techniques of this newly emerging discipline It illustrates numerous applications of Ecological Informatics for stream systems river systems freshwater lakes and marine systems as well as image recognition at micro and macro scale Case studies focus on applications of artificial neural networks genetic algorithms fuzzy logic and adaptive agents to current ecological management issues such as toxic algal blooms eutrophication habitat degradation conservation of biodiversity and

sustainable fishery

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