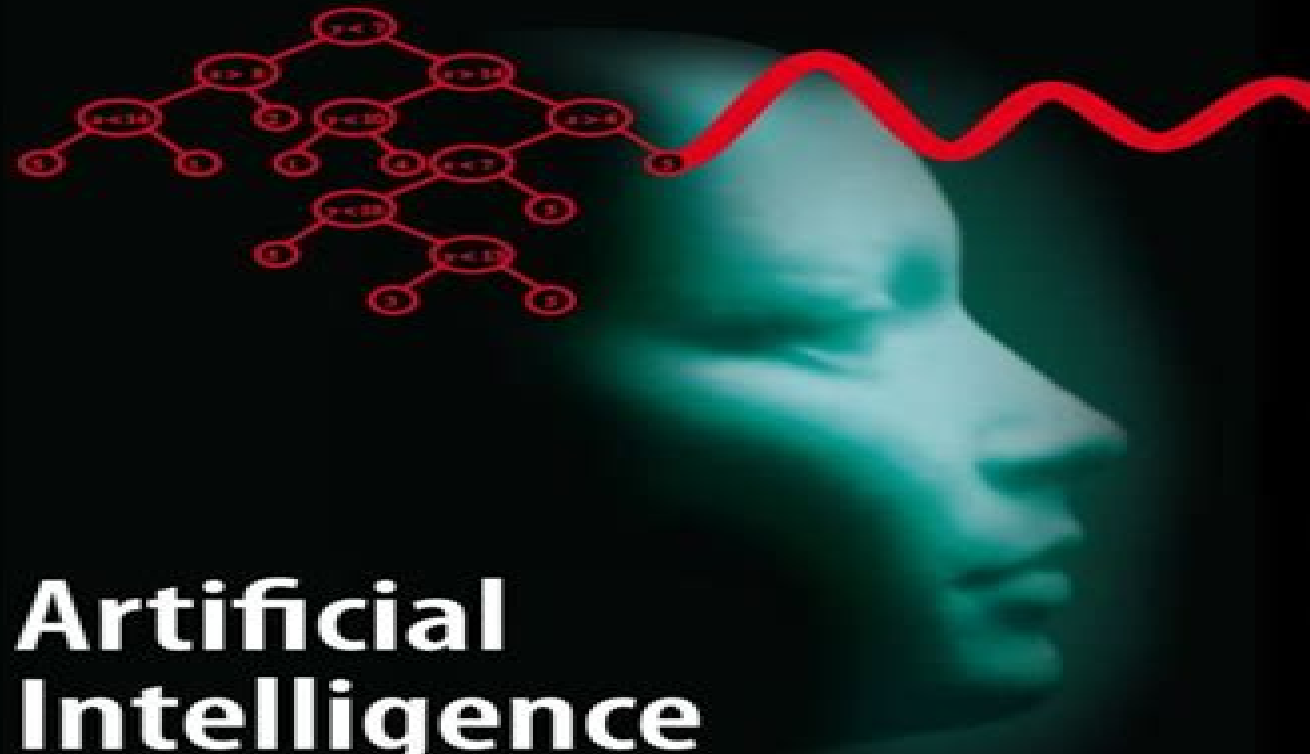


Artificial Intelligence Methods in the Environmental Sciences

Sue Ellen Haupt
Antonello Pasini
Caren Marzban
Editors

Artificial Intelligence Methods In The Environmental Sciences

William Wei Hsieh



Artificial Intelligence Methods In The Environmental Sciences:

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Marzban,2008-11-28 How can environmental scientists and engineers use the increasing amount of available data to enhance our understanding of planet Earth its systems and processes This book describes various potential approaches based on artificial intelligence AI techniques including neural networks decision trees genetic algorithms and fuzzy logic Part I contains a series of tutorials describing the methods and the important considerations in applying them In Part II many practical examples illustrate the power of these techniques on actual environmental problems International experts bring to life ways to apply AI to problems in the environmental sciences While one culture entwines ideas with a thread another links them with a red line Thus a red thread ties the book together weaving a tapestry that pictures the natural data driven AI methods in the light of the more traditional modeling techniques and demonstrating the power of these data based methods

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Machine Learning Methods in the Environmental Sciences William W. Hsieh,2009-07-30 A graduate textbook that provides a unified treatment of machine learning methods and their applications in the environmental sciences **Machine**

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Artificial Intelligence Techniques for Sustainable Development Deepika Ghai, Kirti Rawal, Kanav Dhir, Suman Lata Tripathi, 2024-12-19 How can the efficiency of the algorithms be increased with a lesser number of computations as well as optimized with the resources for cost effective solutions Artificial Intelligence Techniques for Sustainable Development provides an answer Further it discusses important concepts such as green communication network design and implementation for the Internet of Things ecosystem green computing in network security and artificial intelligence models for remote sensing applications Key features Presents the latest tools and techniques in developing solutions intended for resource utilization energy efficiency and human and environmental health Highlights the advancement in electronics and communication technology for green applications Covers smart energy harvesting charging and power management techniques using machine learning Explains green communication network design and implementation for the Internet of Things ecosystem and green computing in network security Illustrates prediction models for carbon emission and sequestration environmental health and climate change The book is aimed at senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering environmental engineering and biomedical engineering

Artificial Intelligence and Smart Agriculture Applications Utku Kose, V.B. Surya Prasath, M. Rubaiyat Hossain Mondal, Prajoy Podder, Subrato Bharati, 2022-09-07 An essential resource work for understanding how to design and develop smart applications for present and future problems of the field of agriculture Dr Deepak Gupta Maharaja Agrasen Institute of Technology Delhi India As a result of the advances in Artificial Intelligence AI many aspects of daily life have been transformed by smart digital technology Advanced intelligent algorithms can provide powerful solutions to real world problems Smart applications have become commonplace All areas of life are being changed by smart tools developed to deal with complex issues challenging both humanity and the earth Artificial Intelligence and Smart Agriculture Applications presents the latest smart agriculture applications developed across the globe It covers a broad array of solutions using data science and AI to attack problems facing agriculture worldwide Features Application of drones and sensors in advanced farming A cloud computing model for implementing smart agriculture Conversational AI for farmer s advisory communications Intelligent fuzzy logic to predict global warming s effect on agriculture Machine learning algorithms for mapping soil macronutrient elements variability A smart IoT framework for soil fertility enhancement AI applications in pest management A model using Python for predicting rainfall The book examines not only present solutions but also potential future outcomes It looks at the role of AI based algorithms and the almost infinite combinations of variables for agricultural applications Researchers public and private sector representatives agriculture scientists and students can use this book to develop sustainable and solutions for smart

agriculture This book's findings are especially important as the planet is facing unprecedented environmental challenges from over farming and climate change due to global warming

Reshaping Environmental Science Through Machine Learning and IoT Gupta, Rajeev Kumar, Jain, Arti, Wang, John, Pateriya, Rajesh Kumar, 2024-05-06

In the face of escalating environmental challenges such as climate change air and water pollution and natural disasters traditional approaches to understanding and addressing these issues have yet to be proven sufficient Academic scholars are compelled to seek innovative solutions that marry digital intelligence and natural ecosystems Reshaping Environmental Science Through Machine Learning and IoT serves as a comprehensive exploration into the transformative potential of Machine Learning ML and the Internet of Things IoT to address critical environmental challenges The book establishes a robust foundation in ML and IoT explaining their relevance to environmental science As the narrative unfolds it delves into diverse applications providing theoretical insights alongside practical knowledge From interpreting weather patterns to predicting air and water quality the book navigates through the intricate web of environmental complexities Notably it unveils approaches to disaster management waste sorting and climate change monitoring showcasing the symbiotic relationship between digital intelligence and natural ecosystems This book is ideal for audiences from students and researchers to data scientists and disaster management professionals with a nuanced understanding of IoT ML and Artificial Intelligence AI

Machine Learning in Chemical Safety and Health Qingsheng Wang, Changjie Cai, 2022-10-31

Introduces Machine Learning Techniques and Tools and Provides Guidance on How to Implement Machine Learning Into Chemical Safety and Health related Model Development There is a growing interest in the application of machine learning algorithms in chemical safety and health related model development with applications in areas including property and toxicity prediction consequence prediction and fault detection This book is the first to review the current status of machine learning implementation in chemical safety and health research and to provide guidance for implementing machine learning techniques and algorithms into chemical safety and health research Written by an international team of authors and edited by renowned experts in the areas of process safety and occupational and environmental health sample topics covered within the work include An introduction to the fundamentals of machine learning including regression classification and cross validation and an overview of software and tools Detailed reviews of various applications in the areas of chemical safety and health including flammability prediction consequence prediction asset integrity management predictive nanotoxicity and environmental exposure assessment and more Perspective on the possible future development of this field Machine Learning in Chemical Safety and Health serves as an essential guide on both the fundamentals and applications of machine learning for industry professionals and researchers in the fields of process safety chemical safety occupational and environmental health and industrial hygiene

Computers in Earth and Environmental Sciences Hamid Reza Pourghasemi, 2021-09-22

Computers in Earth and Environmental Sciences Artificial Intelligence and Advanced Technologies in Hazards and Risk Management addresses the need for a comprehensive

book that focuses on multi hazard assessments natural and manmade hazards and risk management using new methods and technologies that employ GIS artificial intelligence spatial modeling machine learning tools and meta heuristic techniques The book is clearly organized into four parts that cover natural hazards environmental hazards advanced tools and technologies in risk management and future challenges in computer applications to hazards and risk management Researchers and professionals in Earth and Environmental Science who require the latest technologies and advances in hazards remote sensing geosciences spatial modeling and machine learning will find this book to be an invaluable source of information on the latest tools and technologies available Covers advanced tools and technologies in risk management of hazards in both the Earth and Environmental Sciences Details the benefits and applications of various technologies to assist researchers in choosing the most appropriate techniques for purpose Expansively covers specific future challenges in the use of computers in Earth and Environmental Science Includes case studies that detail the applications of the discussed technologies down to individual hazards

Proceedings of the Future Technologies Conference (FTC) 2019 Kohei Arai,Rahul Bhatia,Supriya Kapoor,2019-10-12 This book presents state of the art intelligent methods and techniques for solving real world problems and offers a vision of future research Featuring 143 papers from the 4th Future Technologies Conference held in San Francisco USA in 2019 it covers a wide range of important topics including but not limited to computing electronics artificial intelligence robotics security and communications and their applications to the real world As such it is an interesting exciting and inspiring read

Urban Artificial Intelligence Tan Yigitcanlar,2024-12-12 This volume thoroughly explores the perceptions and ethical considerations surrounding urban artificial intelligence AI Tan Yigitcanlar delves into the complex public and professional views on AI offering invaluable insights for policymakers urban planners and developers As the world rapidly advances technologically the role of AI has become increasingly significant AI s transformative power spans various sectors revolutionising how we operate and innovate in fields such as healthcare finance agriculture and space exploration Despite its wide reaching impact the integration of AI into urban planning and development remains relatively underexplored This is surprising given AI s immense potential to revolutionise urban design management and experience Comprising eight comprehensive and insightful chapters this book examines AI s role in urban contexts including its applications public perceptions and ethical implications The first part of the guidebook delves into varied perceptions of AI within different urban sectors presenting detailed perception analyses on AI s role in urban planning local government services disaster management and the construction industry The second part shifts focus to the ethical implications and responsible implementation of AI in urban settings It provides frameworks and strategies to ensure AI technologies contribute positively to urban development while mitigating potential risks and ethical concerns This volume alongside its companion *Urban Artificial Intelligence A Guidebook for Understanding Concepts and Technologies* offers a holistic view of Urban Artificial Intelligence Together these books provide essential insights for urban planners policymakers

researchers and anyone interested in AI and urban development guiding responsible AI integration to foster smarter more sustainable and equitable urban environments

Computational Intelligence for Water and Environmental Sciences Omid Bozorg-Haddad, Babak Zolghadr-Asli, 2022-07-08 This book provides a comprehensive yet fresh perspective for the cutting edge CI oriented approaches in water resources planning and management The book takes a deep dive into topics like meta heuristic evolutionary optimization algorithms e g GA PSA etc data mining techniques e g SVM ANN etc probabilistic and Bayesian oriented frameworks fuzzy logic AI deep learning and expert systems These approaches provide a practical approach to understand and resolve complicated and intertwined real world problems that often imposed serious challenges to traditional deterministic precise frameworks The topic caters to postgraduate students and senior researchers who are interested in computational intelligence approach to issues stemming from water and environmental sciences

AI in the Wild Peter Dauvergne, 2020-09-15 Examining the potential benefits and risks of using artificial intelligence to advance global sustainability Drones with night vision are tracking elephant and rhino poachers in African wildlife parks and sanctuaries smart submersibles are saving coral from carnivorous starfish on Australia s Great Barrier Reef recycled cell phones alert Brazilian forest rangers to the sound of illegal logging The tools of artificial intelligence are being increasingly deployed in the battle for global sustainability And yet warns Peter Dauvergne we should be cautious in declaring AI the planet s savior In *AI in the Wild* Dauvergne avoids the AI industry powered hype and offers a critical view exploring both the potential benefits and risks of using artificial intelligence to advance global sustainability Dauvergne finds that corporations and states often use AI in ways that are antithetical to sustainability The competition to profit from AI is entrenching technocratic management revving up resource extraction and turbocharging consumption as consumers buy new smart devices and discard their old less smart ones Smart technology is helping farmers grow crops more efficiently but also empowering the agrifood industry Moreover states are weaponizing AI to control citizens suppress dissent and aim cyberattacks at rival states Is there a way to harness the power of AI for environmental and social good Dauvergne argues for precaution and humility as guiding principles in the deployment of AI

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 The Application of Neural Networks in the Earth System Sciences Vladimir M.

Krasnopolsky, 2013-06-14 This book brings together a representative set of Earth System Science ESS applications of the neural network NN technique It examines a progression of atmospheric and oceanic problems which from the mathematical point of view can be formulated as complex multidimensional and nonlinear mappings It is shown that these problems can be solved utilizing a particular type of NN the multilayer perceptron MLP This type of NN applications covers the majority of NN applications developed in ESSs such as meteorology oceanography atmospheric and oceanic satellite remote sensing numerical weather prediction and climate studies The major properties of the mappings and MLP NNs are formulated and discussed Also the book presents basic background for each introduced application and provides an extensive set of references This is an excellent book to learn how to apply artificial neural network methods to earth system sciences The author Dr Vladimir Krasnopolsky is a universally recognized master in this field With his vast knowledge and experience he carefully guides the reader through a broad variety of problems found in the earth system sciences where neural network methods can be applied fruitfully The broad range of topics covered in this book ensures that researchers graduate students from many fields will find it an invaluable guide to neural network methods Prof William W Hsieh University of British Columbia Vancouver Canada Vladimir Krasnopolsky has been the founding father of applying computation intelligence methods to environmental science Dr Krasnopolsky has created a masterful exposition of a young yet maturing field that promises to advance a deeper understanding of best modeling practices in environmental science Dr Sue Ellen Haupt National Center for Atmospheric Research Boulder USA Vladimir Krasnopolsky has written an important and wonderful book on applications of neural networks to replace complex and expensive computational algorithms within Earth System Science models He is uniquely qualified to write this book since he has been a true pioneer with regard to many of these applications Many other examples of creative emulations will inspire not just readers interested in the Earth Sciences but any other modeling practitioner to address both theoretical and practical complex problems that may or will arise in a complex system Prof Eugenia Kalnay University of Maryland USA Smart City Blueprint Tan Yigitcanlar, 2023-10-26 The smart city movement during the last decade and a half advocated the built environment and digital technology convergence with the backing of institutional capital and government support The commitment of a significant number of local governments across the globe in terms of official smart city policies and initiatives along with the constant push of global technology giants has reinforced the popularity of this movement This two volume treatment on smart cities thoroughly explores and sheds light on the prominent elements of the smart city phenomenon and generates a smart city blueprint This first volume with its 12 chapters provides a sound understanding on the key foundations and growth directions of smart city frameworks technologies and platforms with theoretical expansions practical implications and real world case study lessons The second companion volume offers sophisticated perspectives on the key foundations and directions of smart city policies communities

and urban futures with theoretical expansions practical implications and real world case study lessons This book is an invaluable reference source for urban policymakers managers planners practitioners and many others particularly to benefit from it when tackling key urban and societal issues and planning for and delivering smart city solutions Moreover the book is also a rich and important repository for scholars and research and undergraduate students as it communicates the complex smart city phenomenon in an easy to digest form by providing both the big picture view and specifics of each component of that view It also appeals to local government agencies and smart city practitioners

Green Computational Intelligence
Nitish Pathak,Neelam Sharma,Moolchand Sharma,Dac-Nhuong Le,2025-11-03 Transform your approach to technology and sustainability with this comprehensive guide to green computing and computational intelligence The global pursuit of sustainability has placed an urgent emphasis on developing innovative and eco friendly technological solutions Green computing has the potential to revolutionize the way we evaluate sustainability with the use of energy efficient algorithms for resource optimization sustainable hardware design and smart resource management Recognizing the intersection of computational intelligence and environmental stewardship this book seeks to address the pressing challenges of integrating green practices into the realm of computational intelligence and aligning them with global sustainable development goals Through global expertise from researchers and industry professionals this book comprehensively covers the many applications of these innovative new technologies as well as the challenges surrounding their implementation Readers will find the book Explores the convergence of environmental sustainability and advanced computational techniques addressing the global call for energy efficient and eco friendly technological solutions Integrates perspectives from computer science engineering environmental science and artificial intelligence providing a holistic view of green computing Examines sustainable practices across diverse topics including energy efficient algorithms and resource optimization sustainable hardware design green software engineering eco friendly data centers and smart resource management Offers practical strategies for implementing sustainable computing practices while addressing theoretical and practical challenges Highlights the role of computational intelligence in promoting sustainability bridging the gap between technology development and environmental conservation Audience Researchers students educators and industry professionals working towards sustainable practices in and using green technology

Environmental Informatics P. K. Paul,Amitava Choudhury,Arindam Biswas,Binod Kumar Singh,2022-06-27 This interdisciplinary book incorporates various aspects of environment ecology and natural disaster management including cognitive informatics and computing It fosters research innovation and discovery on basic science and information technology for addressing various environmental problems while providing the right solutions in environment ecology and disaster management This book is a unique resource for researchers and practitioners of energy informatics in various scientific technological engineering and social fields to disseminate original research on the application of digital technology and information management theory and practice to

facilitate the global transition toward sustainable and resilient energy systems Cognitive informatics is also the need of the hour and deals with cutting edge and multidisciplinary research area that tackles the fundamental problems shared by modern informatics computation software engineering AI cybernetics cognitive science neuropsychology medical science systems science philosophy linguistics economics management science and life sciences which this book also presents

Fundamentals and Applications of AI: An Interdisciplinary Perspective Víctor M. Eguíluz, Claudio Mirasso, Raul Vicente, 2021-03-03

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