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... **Model** the Agricultural Soil-Landscape of Germany: An Approach Involving Soil Functional Types with Their ... **Hybrid** Electricity price Forecasting **Model** for Electricity Market Management. J. Clean. Prod. 249, 119318. doi:10.1016/j.jclepro ...

A Neuro-wavelet Model for the Short-term Forecasting of High-frequency Time Series of Stock Returns 2013 Luis F. Ortega (Ph.D.)

Intelligent Techniques for Data Analysis in Diverse Settings 2016-04-20 Celebi, Numan Data analysis

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forms the basis of many forms of research ranging from the scientific to the governmental. With the advent of machine intelligence and neural networks, extracting, modeling, and approaching data has been unimpeachably altered. These changes, seemingly small, affect the way societies organize themselves, deliver services, or interact with each other. Intelligent Techniques for Data Analysis in Diverse Settings addresses the specialized requirements of data analysis in a comprehensive way. This title contains a comprehensive overview of the most innovative

recent approaches borne from intelligent techniques such as neural networks, rough sets, fuzzy sets, and metaheuristics. Combining new data analysis technologies, applications, emerging trends, and case studies, this publication reviews the intelligent, technological, and organizational aspects of the field. This book is ideally designed for IT professionals and students, data analysis specialists, healthcare providers, and policy makers.

Mathematical Models, Methods and Applications
2015-12-14 Abul Hasan Siddiqi The present volume contains invited talks of 11th biennial conference on “Emerging Mathematical Methods, Models and Algorithms for Science and Technology”. The main message of the book is that mathematics has a great potential to analyse and understand the challenging problems of nanotechnology, biotechnology, medical science, oil industry and financial technology. The

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book highlights all the features and main theme discussed in the conference. All contributing authors are eminent academicians, scientists, researchers and scholars in their respective fields, hailing from around the world.

Data Analytics for Management, Banking and Finance 2023-09-19 Foued Saâdaoui This book is a practical guide on the use of various data analytics and visualization techniques and tools in the banking and financial sectors. It focuses on how combining expertise from interdisciplinary areas, such as machine learning and business analytics, can bring forward a shared vision on the benefits of data science from the research point of view to the evaluation of policies. It highlights how data science is reshaping the business sector. It includes examples of novel big data sources and some successful applications on the use of advanced

machine learning, natural language processing, networks analysis, and time series analysis and forecasting, among others, in the banking and finance. It includes several case studies where innovative data science models is used to analyse, test or model some crucial phenomena in banking and finance. At the same time, the book is making an appeal for a further adoption of these novel applications in the field of economics and finance so that they can reach their full potential and support policy-makers and the related stakeholders in the transformational recovery of our societies. The book is for stakeholders involved in research and innovation in the banking and financial sectors, but also those in the fields of computing, IT and managerial information systems, helping through this new theory to better specify the new opportunities and challenges. The many real cases addressed in this book also provide a detailed guide

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allowing the reader to realize the latest methodological discoveries and the use of the different Machine Learning approaches (supervised, unsupervised, reinforcement, deep, etc.) and to learn how to use and evaluate performance of new data science tools and frameworks

Operation, Regulation and Planning of Power and Natural Gas Systems 2021-01-12 Javier Reneses Worldwide, electricity systems are evolving to adapt to a low-carbon economy in which increasingly more renewable energy resources are being integrated. These changes, in turn, make the development of new methods, tools, and approaches to deal with the operation and planning of electricity systems necessary. On the other hand, new regulations must be developed in order to deal with a wide integration of renewable and distributed energy resources, both from a

generation and a network (transmission and distribution) perspective. Furthermore, the natural gas sector is going through significant transformation related mainly to both technological advances and strategic policy decisions. While there is great uncertainty in the future of natural gas within the global energy matrix, it is clear that it will play a major role during the next years as a bridge fuel towards a decarbonized economy. In this context, natural gas systems are undergoing deep transformations, necessitating the development of new tools to operate and plan gas systems as well as new approaches to regulate them. This book, therefore, seeks to contribute to the energy transformation agenda through original contributions focused on both power and natural gas systems, addressing innovative operation and planning methods as well as regulation of both energy systems.

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Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications 2016-07-26 Management Association, Information Resources As technology continues to become more sophisticated, mimicking natural processes and phenomena also becomes more of a reality. Continued research in the field of natural computing enables an understanding of the world around us, in addition to opportunities for man-made computing to mirror the natural processes and systems that have existed for centuries. Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications takes an interdisciplinary approach to the topic of natural computing, including emerging technologies being developed for the purpose of simulating natural phenomena, applications across industries, and the future outlook of biologically and nature-inspired technologies. Emphasizing critical research in a comprehensive multi-volume set, this publication is

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designed for use by IT professionals, researchers, and graduate students studying intelligent computing.

Increasing Penetration of Renewable Sources in Power Systems: Opportunities and Challenges
2023-04-27 Xue Lyu

Supervised Machine Learning in Wind Forecasting and Ramp Event Prediction 2020-01-21 Harsh S. Dhiman Supervised Machine Learning in Wind Forecasting and Ramp Event Prediction provides an up-to-date overview on the broad area of wind generation and forecasting, with a focus on the role and need of Machine Learning in this emerging field of knowledge. Various regression models and signal decomposition techniques are presented and analyzed, including least-square, twin support and random forest regression, all with supervised

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Machine Learning. The specific topics of ramp event prediction and wake interactions are addressed in this book, along with forecasted performance. Wind speed forecasting has become an essential component to ensure power system security, reliability and safe operation, making this reference useful for all researchers and professionals researching renewable energy, wind energy forecasting and generation. Features various supervised machine learning based regression models Offers global case studies for turbine wind farm layouts Includes state-of-the-art models and methodologies in wind forecasting

Power Electrical Systems 2018-07-23 Faouzi Derbel Power Electrical Systems are an indispensable feature of the exploitation and diagnostics of electrical machines and energy resources. The Volume presents extended and peer reviewed

papers from the international conference on PES in Barcelona, 2014. Among the topics dealt with are: electrical machines design, voltage and control, automotive power drives, electromagnetic compatibility, monitoring and diagnostics, renewable energy systems. The International Conference on Power Electrical Systems (PES) is a forum for researchers and specialists in different fields of electrical engineering related to Hybrid Renewable Energy Systems (HRES); Power Electronics in Renewable Energy Systems; Topologies and Control of Power Electronics Converters Used in Renewable Energy Systems; Electric machines modelling and control; Automotive electrical systems; Electric machine design; Monitoring and diagnostics; Special machines; Power systems; Power electronic converters; Renewable energy systems; Variable speed drives; Electromagnetic compatibility;

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Variable speed generating systems; Transformers.

Data Analytics and Computational Intelligence: Novel Models, Algorithms and Applications 2023-10-20 Gilberto Rivera In the age of transformative artificial intelligence (AI), which has the potential to revolutionize our lives, this book provides a comprehensive exploration of successful research and applications in AI and data analytics. Covering innovative approaches, advanced algorithms, and data analysis methodologies, this book addresses complex problems across topics such as machine learning, pattern recognition, data mining, optimization, and predictive modeling. With clear explanations, practical examples, and cutting-edge research, this book seeks to expand the understanding of a wide readership, including students, researchers, practitioners, and technology enthusiasts eager to explore these exciting fields.

Featuring real-world applications in education, health care, climate modeling, cybersecurity, smart transportation, conversational systems, and material analysis, among others, this book highlights how these technologies can drive innovation and generate competitive advantages.

Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery 2022-01-04 Quan Xie
This book consists of papers on the recent progresses in the state of the art in natural computation, fuzzy systems and knowledge discovery. The book can be useful for researchers, including professors, graduate students, as well as R & D staff in the industry, with a general interest in natural computation, fuzzy systems and knowledge discovery. The work printed in this book was presented at the 2021 17th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-

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FSKD 2021, 24–26 July 2021, Guiyang, China). All papers were rigorously peer-reviewed by experts in the areas.

Handbook of Power Systems II 2010-08-26 Steffen Rebennack Energy is one of the world's most challenging problems, and power systems are an important aspect of energy related issues. This handbook contains state-of-the-art contributions on power systems modeling and optimization. The book is separated into two volumes with six sections, which cover the most important areas of energy systems. The first volume covers the topics operations planning and expansion planning while the second volume focuses on transmission and distribution modeling, forecasting in energy, energy auctions and markets, as well as risk management. The contributions are authored by recognized specialists in their fields and consist in

either state-of-the-art reviews or examinations of state-of-the-art developments. The articles are not purely theoretical, but instead also discuss specific applications in power systems.

International Research in Engineering Sciences
2022-10-20 Şakir Taşdemir, Ahmet Cevahir Çınar

Advanced Intelligent Technologies for Industry
2022-05-18 Kazumi Nakamatsu The book includes new research results of scholars from the Second International Conference on Advanced Intelligent Technologies (ICAIT 2021) subtitled Intelligent Technology and Industry organized by IRNet International Academic Communication Center, held during October 15–17, 2021. The book covers research work from active researchers who are working on collaboration of industry and various intelligent technologies such as intelligent

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technologies applicable/applied to manufacturing and distribution of industrial products, factory automation, business, etc. The book focuses on theory, design, development, testing, and evaluation of all intelligent technologies applicable/applied to various parts of industry and its infrastructure. The topics included are all computational intelligence techniques applicable/applied to industry, intelligent techniques in data science applicable/applied to business and management, intelligent network systems applicable/applied to industrial production, intelligent technologies applicable to smart agriculture, and intelligent information systems for agriculture.

Artificial Intelligence and Sustainable Computing
2022-11-15 Manjaree Pandit This book presents high-quality research papers presented at 3rd

International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering and Technology (ICSISCET 2021) held at Madhav Institute of Technology & Science (MITS), Gwalior, India, from November 13–14, 2021. The book extensively covers recent research in artificial intelligence (AI) that knits together nature-inspired algorithms, evolutionary computing, fuzzy systems, computational intelligence, machine learning, deep learning, etc., which is very useful while dealing with real problems due to their model-free structure, learning ability, and flexible approach. These techniques mimic human thinking and decision-making abilities to produce systems that are intelligent, efficient, cost-effective, and fast. The book provides a friendly and informative treatment of the topics which makes this book an ideal

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researchers.

Prediction Techniques for Renewable Energy Generation and Load Demand Forecasting 2023-01-20 Anuradha Tomar This book provides an introduction to forecasting methods for renewable energy sources integrated with existing grid. It consists of two sections; the first one is on the generation side forecasting methods, while the second section deals with the different ways of load forecasting. It broadly includes artificial intelligence, machine learning, hybrid techniques and other state-of-the-art techniques for renewable energy and load predictions. The book reflects the state of the art in distributed generation system and future microgrids and covers theory, algorithms, simulations and case studies. It offers invaluable insights through this valuable resource to students and researchers working in the fields of renewable

energy, integration of renewable energy with existing grid and electrical distribution network.

Innovations in Infrastructure 2018-09-28 Dipankar Deb The book covers innovative research and its applications in infrastructure development and related areas. This book discusses the state-of-art development, challenges and unsolved problems in the field of infrastructure/smart development, control engineering, power system infrastructure, smart infrastructure, waste management and renewable energy. The solutions discussed in this book encourage the researchers and IT professionals to put the methods into their practice.

Modeling and Forecasting Electricity Loads and Prices 2007-01-30 Rafal Weron This book offers an in-depth and up-to-date review of different statistical tools that can be used to analyze and

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forecast the dynamics of two crucial for every energy company processes—electricity prices and loads. It provides coverage of seasonal decomposition, mean reversion, heavy-tailed distributions, exponential smoothing, spike preprocessing, autoregressive time series including models with exogenous variables and heteroskedastic (GARCH) components, regime-switching models, interval forecasts, jump-diffusion models, derivatives pricing and the market price of risk. Modeling and Forecasting Electricity Loads and Prices is packaged with a CD containing both the data and detailed examples of implementation of different techniques in Matlab, with additional examples in SAS. A reader can retrace all the intermediate steps of a practical implementation of a model and test his understanding of the method and correctness of the computer code using the same input data. The book will be of particular interest to

the quants employed by the utilities, independent power generators and marketers, energy trading desks of the hedge funds and financial institutions, and the executives attending courses designed to help them to brush up on their technical skills. The text will be also of use to graduate students in electrical engineering, econometrics and finance wanting to get a grip on advanced statistical tools applied in this hot area. In fact, there are sixteen Case Studies in the book making it a self-contained tutorial to electricity load and price modeling and forecasting.

Machine Learning and Intelligent Communications
2019-10-27 Xiangping Bryce Zhai This volume constitutes the refereed post-conference proceedings of the Fourth International Conference on Machine Learning and Intelligent Communications,

MLICOM 2019, held in Nanjing, China, in August
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2019. The 65 revised full papers were carefully selected from 114 submissions. The papers are organized thematically in machine learning, intelligent positioning and navigation, intelligent multimedia processing and security, wireless mobile network and security, cognitive radio and intelligent networking, IoT, intelligent satellite communications and networking, green communication and intelligent networking, ad-hoc and sensor networks, resource allocation in wireless and cloud networks, signal processing in wireless and optical communications, and intelligent cooperative communications and networking.

Hybrid Advanced Optimization Methods with
Evolutionary Computation Techniques in Energy
Forecasting 2018-10-19 Wei-Chiang Hong This book is a printed edition of the Special Issue "Hybrid
Advanced Optimization Methods with Evolutionary

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Computation Techniques in Energy Forecasting" that was published in Energies

Application of Machine Learning and Deep Learning Methods to Power System Problems 2021-11-21 Morteza Nazari-Heris This book evaluates the role of innovative machine learning and deep learning methods in dealing with power system issues, concentrating on recent developments and advances that improve planning, operation, and control of power systems. Cutting-edge case studies from around the world consider prediction, classification, clustering, and fault/event detection in power systems, providing effective and promising solutions for many novel challenges faced by power system operators. Written by leading experts, the book will be an ideal resource for researchers and engineers working in the electrical power engineering and power system planning

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communities, as well as students in advanced graduate-level courses.

Advanced technologies for planning and operation of prosumer energy systems 2023-04-28 Bin Zhou

Web Information Systems and Applications 2019-09-17 Weiwei Ni This book constitutes the proceedings of the 16th International Conference on Web Information Systems and Applications, WISA 2019, held in Qingdao, China, in September 2019. The 39 revised full papers and 33 short papers presented were carefully reviewed and selected from 154 submissions. The papers are grouped in topical sections on machine learning and data mining, cloud computing and big data, information retrieval, natural language processing, data privacy and security, knowledge graphs and social networks, blockchain, query processing, and

recommendations.

Advanced Statistical Modeling, Forecasting, and Fault Detection in Renewable Energy Systems
2020-04-01 Fouzi Harrou Fault detection, control, and forecasting have a vital role in renewable energy systems (Photovoltaics (PV) and wind turbines (WTs)) to improve their productivity, efficiency, and safety, and to avoid expensive maintenance. For instance, the main crucial and challenging issue in solar and wind energy production is the volatility of intermittent power generation due mainly to weather conditions. This fact usually limits the integration of PV systems and WT into the power grid. Hence, accurately forecasting power generation in PV and WT is of great importance for daily/hourly efficient management of power grid production, delivery, and storage, as well as for decision-making on the

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energy market. Also, accurate and prompt fault detection and diagnosis strategies are required to improve efficiencies of renewable energy systems, avoid the high cost of maintenance, and reduce risks of fire hazards, which could affect both personnel and installed equipment. This book intends to provide the reader with advanced statistical modeling, forecasting, and fault detection techniques in renewable energy systems.

Artificial Intelligence Enabled Computational Methods for Smart Grid Forecast and Dispatch
2023-05-05 Yuanzheng Li With the increasing penetration of renewable energy and distributed energy resources, smart grid is facing great challenges, which could be divided into two categories. On the one hand, the endogenous uncertainties of renewable energy and electricity load lead to great difficulties in smart grid forecast.

On the other hand, massive electric devices as well as their complex constraint relationships bring about significant difficulties in smart grid dispatch. Owing to the rapid development of artificial intelligence in recent years, several artificial intelligence enabled computational methods have been successfully applied in the smart grid and achieved good performances. Therefore, this book is concerned with the research on the key issues of artificial intelligence enabled computational methods for smart grid forecast and dispatch, which consist of three main parts. (1) Introduction for smart grid forecast and dispatch, in inclusion of reviewing previous contribution of various research methods as well as their drawbacks to analyze characteristics of smart grid forecast and dispatch. (2) Artificial intelligence enabled computational methods for smart grid forecast problems, which are devoted to present the recent approaches of deep learning and

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machine learning as well as their successful applications in smart grid forecast. (3) Artificial intelligence enabled computational methods for smart grid dispatch problems, consisting of edge-cutting intelligent decision-making approaches, which help determine the optimal solution of smart grid dispatch. The book is useful for university researchers, engineers, and graduate students in electrical engineering and computer science who wish to learn the core principles, methods, algorithms, and applications of artificial intelligence enabled computational methods.

Smart Metro Station Systems 2022-01-04 Hui Liu
Smart Metro Station Systems: Data Science and Engineering introduces key technologies in data science and engineering for smart metro station systems. The book consists of three main parts, focusing on the environment, people and energy.

Each chapter includes practical applications, along with information on metro traffic flow monitoring and passenger guidance, methods for behavior analysis and trajectory projection, clustering and anomaly detection in crowd hotspots, monitoring and prediction for station humidity, monitoring and spatial prediction for air pollutants, time series feature extraction and analysis of metro load, characteristic and correlation analysis of metro load, and prediction and intelligent ventilation control. This volume offers a key reference on the emerging area of smart metro stations and will be useful to those working on smart railways, data science, engineering, artificial intelligence and aligned fields. Presents relevant core technologies of data science and engineering in smart metro station systems Describes systems based on holographic perception, terminal platform control and highly-autonomous operation Gives a large number of

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practical case studies and experimental designs Introduces state-of-the-art machine learning and data mining methods for smart metro station systems Offers a comprehensive, up-to-date research solution for the emerging area of smart metro stations

Neural Computing for Advanced Applications 2022-10-20 Haijun Zhang The two-volume Proceedings set CCIS 1637 and 1638 constitutes the refereed proceedings of the Third International Conference on Neural Computing for Advanced Applications, NCAA 2022, held in Jinan, China, during July 8–10, 2022. The 77 papers included in these proceedings were carefully reviewed and selected from 205 submissions. These papers were categorized into 10 technical tracks, i.e., neural network theory, and cognitive sciences, machine learning, data mining, data security & privacy

protection, and data-driven applications, computational intelligence, nature-inspired optimizers, and their engineering applications, cloud/edge/fog computing, the Internet of Things/Vehicles (IoT/IoV), and their system optimization, control systems, network synchronization, system integration, and industrial artificial intelligence, fuzzy logic, neuro-fuzzy systems, decision making, and their applications in management sciences, computer vision, image processing, and their industrial applications, natural language processing, machine translation, knowledge graphs, and their applications, Neural computing-based fault diagnosis, fault forecasting, prognostic management, and system modeling, and Spreading dynamics, forecasting, and other intelligent techniques against coronavirus disease (COVID-19).

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Kernel Methods and Hybrid Evolutionary Algorithms in Energy Forecasting 2018-10-22 Wei-Chiang Hong This book is a printed edition of the Special Issue "Kernel Methods and Hybrid Evolutionary Algorithms in Energy Forecasting" that was published in Energies

Advanced Fuzzy Logic Approaches in Engineering Science 2018-09-14 Ram, Mangey Fuzzy logic techniques have had extraordinary growth in various engineering systems. The developments in engineering sciences have caused apprehension in modern years due to high-tech industrial processes with ever-increasing levels of complexity. Advanced Fuzzy Logic Approaches in Engineering Science provides innovative insights into a comprehensive range of soft fuzzy logic techniques applied in various fields of engineering problems like fuzzy sets theory, adaptive neuro fuzzy

inference system, and hybrid fuzzy logic genetic algorithms belief networks in industrial and engineering settings. The content within this publication represents the work of particle swarms, fuzzy computing, and rough sets. It is a vital reference source for engineers, research scientists, academicians, and graduate-level students seeking coverage on topics centered on the applications of fuzzy logic in high-tech industrial processes.

Advances in Data Science, Cyber Security and IT Applications 2019-12-20 Auhood Alfaries This book constitutes the refereed proceedings of the First International Conference on Intelligent Cloud Computing, ICC 2019, held in Riyadh, Saudi Arabia, in December 2019. The two-volume set presents 53 full papers, which were carefully reviewed and selected from 174 submissions. The papers are organized in topical sections on Cyber Security; Data

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Science; Information Technology and Applications; Network and IoT.

Advanced Computational Methods in Energy, Power, Electric Vehicles, and Their Integration 2017-09-01 Kang Li The three-volume set CCIS 761, CCIS 762, and CCIS 763 constitutes the thoroughly refereed proceedings of the International Conference on Life System Modeling and Simulation, LSMS 2017, and of the International Conference on Intelligent Computing for Sustainable Energy and Environment, ICSEE 2017, held in Nanjing, China, in September 2017. The 208 revised full papers presented were carefully reviewed and selected from over 625 submissions. The papers of this volume are organized in topical sections on: Biomedical Signal Processing; Computational Methods in Organism Modeling; Medical Apparatus and Clinical Applications; Bionics

Control Methods, Algorithms and Apparatus;
Modeling and Simulation of Life Systems; Data
Driven Analysis; Image and Video Processing;
Advanced Fuzzy and Neural Network Theory and
Algorithms; Advanced Evolutionary Methods and
Applications; Advanced Machine Learning Methods
and Applications; Intelligent Modeling, Monitoring,
and Control of Complex Nonlinear Systems;
Advanced Methods for Networked Systems; Control
and Analysis of Transportation Systems; Advanced
Sliding Mode Control and Applications; Advanced
Analysis of New Materials and Devices;
Computational Intelligence in Utilization of Clean
and Renewable Energy Resources; Intelligent
Methods for Energy Saving and Pollution
Reduction; Intelligent Methods in Developing
Electric Vehicles, Engines and Equipment;
Intelligent Computing and Control in Power
Systems; Modeling, Simulation and Control in Smart

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Grid and Microgrid; Optimization Methods;
Computational Methods for Sustainable
Environment.

Artificial Neural Network Modelling 2016-02-03
Subana Shanmuganathan This book covers
theoretical aspects as well as recent innovative
applications of Artificial Neural networks (ANNs)
in natural, environmental, biological, social,
industrial and automated systems. It presents recent
results of ANNs in modelling small, large and
complex systems under three categories, namely, 1)
Networks, Structure Optimisation, Robustness and
Stochasticity 2) Advances in Modelling Biological
and Environmental Systems and 3) Advances in
Modelling Social and Economic Systems. The book
aims at serving undergraduates, postgraduates and
researchers in ANN computational modelling.

Modeling Decisions for Artificial Intelligence
2017-09-12 Vicenç Torra This book constitutes the proceedings of the 14th International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2017, held in Kitakyushu, Japan, in October 2017. The 18 revised full papers presented together with one invited paper and three abstracts of invited talks were carefully reviewed and selected from 30 submissions. Providing a forum for researchers to discuss models for decision and information fusion (aggregation operators) and their applications to AI, the papers are organized in topical sections on aggregation operators, fuzzy measures and integrals; clustering and classification; data privacy and security; data mining and applications.

Flexible Electronics for Electric Vehicles Sunil

Kumar Goyal
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Artificial Intelligence for Renewable Energy
Systems 2022-01-28 S. Balamurugan ARTIFICIAL
INTELLIGENCE FOR RENEWABLE ENERGY
SYSTEMS Renewable energy systems, including
solar, wind, biodiesel, hybrid energy, and other
relevant types, have numerous advantages
compared to their conventional counterparts. This
book presents the application of machine learning
and deep learning techniques for renewable energy
system modeling, forecasting, and optimization for
efficient system design. Due to the importance of
renewable energy in today's world, this book was
designed to enhance the reader's knowledge based
on current developments in the field. For instance,
the extraction and selection of machine learning
algorithms for renewable energy systems,
forecasting of wind and solar radiation are featured
in the book. Also highlighted are intelligent data,
renewable energy informatics systems based on

supervisory control and data acquisition (SCADA); and intelligent condition monitoring of solar and wind energy systems. Moreover, an AI-based system for real-time decision-making for renewable energy systems is presented; and also demonstrated is the prediction of energy consumption in green buildings using machine learning. The chapter authors also provide both experimental and real datasets with great potential in the renewable energy sector, which apply machine learning (ML) and deep learning (DL) algorithms that will be helpful for economic and environmental forecasting of the renewable energy business. Audience The primary target audience includes research scholars, industry engineers, and graduate students working in renewable energy, electrical engineering, machine learning, information & communication technology.

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Advanced Control and Optimization Paradigms for Wind Energy Systems 2019-02-07 Radu-Emil Precup This book presents advanced studies on the conversion efficiency, mechanical reliability, and the quality of power related to wind energy systems. The main concern regarding such systems is reconciling the highly intermittent nature of the primary source (wind speed) with the demand for high-quality electrical energy and system stability. This means that wind energy conversion within the standard parameters imposed by the energy market and power industry is unachievable without optimization and control. The book discusses the rapid growth of control and optimization paradigms and applies them to wind energy systems: new controllers, new computational approaches, new applications, new algorithms, and new obstacles.

Wavelets In Soft Computing (Second Edition)

2022-09-09 Marc Thuillard The comprehensive compendium furnishes a quick and efficient entry point to many multiresolution techniques and facilitates the transition from an idea into a real project. It focuses on methods combining several soft computing techniques (fuzzy logic, neural networks, genetic algorithms) in a multiresolution framework. Illustrated with numerous vivid examples, this useful volume gives the reader the necessary theoretical background to decide which methods suit his/her needs. New materials and applications for multiresolution analysis are added, including notable research topics such as deep learning, graphs, and network analysis.

Big Earth Data Intelligence for Environmental Modeling 2022-06-01 Peng Liu

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Machine Learning and Knowledge Discovery in Databases 2017-12-29 Yasemin Altun The three volume proceedings LNAI 10534 – 10536 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases, ECML PKDD 2017, held in Skopje, Macedonia, in September 2017. The total of 101 regular papers presented in part I and part II was carefully reviewed and selected from 364 submissions; there are 47 papers in the applied data science, nectar and demo track. The contributions were organized in topical sections named as follows: Part I: anomaly detection; computer vision; ensembles and meta learning; feature selection and extraction; kernel methods; learning and optimization, matrix and tensor factorization; networks and graphs; neural networks and deep learning. Part II: pattern and sequence mining; privacy and security; probabilistic models

and methods; recommendation; regression; reinforcement learning; subgroup discovery; time series and streams; transfer and multi-task learning; unsupervised and semisupervised learning. Part III: applied data science track; nectar track; and demo track.

Artificial Intelligence-Based Forecasting and Analytic Techniques for Environment and Economics Management 2022-11-09 Wendong Yang

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