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Recent Advances in Artificial Neural Networks Design and Applications

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Recent Advances In Artificial Neural Networks

**Jorge Rocha, Sandra Oliveira, Cláudia
Viana**



Recent Advances In Artificial Neural Networks:

RECENT ADVANCES IN ARTIFICIAL NEURAL NETWORKS. ,2017 **Recent Advances in Artificial Neural Networks** L. C. Jain,2018-05-04 Neural networks represent a new generation of information processing paradigms designed to mimic in a very limited sense the human brain They can learn recall and generalize from training data and with their potential applications limited only by the imaginations of scientists and engineers they are commanding tremendous popularity and research interest Over the last four decades researchers have reported a number of neural network paradigms however the newest of these have not appeared in book form until now Recent Advances in Artificial Neural Networks collects the latest neural network paradigms and reports on their promising new applications World renowned experts discuss the use of neural networks in pattern recognition color induction classification cluster detection and more Application engineers scientists and research students from all disciplines with an interest in considering neural networks for solving real world problems will find this collection useful **Recent Advances in Artificial Intelligence in Cost Estimation in Project Management** Nevena Rankovic,Dragica Ranković,Mirjana Ivanovic,Ljubomir Lazić,2024-12-06 This book focuses on the practical application of AI tools and techniques in software project management offering detailed theoretical explanations and practical examples of over 40 state of the art machine learning and deep learning algorithms applied across each project phase as well as in risk and resource management Helping the business world estimate projects more accurately while saving costs and resources is crucial in today s rapidly changing fast paced technological landscape Moreover it presents specific aspects of combined approaches through ensemble models incorporating Taguchi s optimization method to further improve estimation accuracy advancing this area of software project management A valuable resource for students and professionals to deepen their knowledge and skills it also serves as a great manual for companies adopting smarter strategies to manage and develop projects more efficiently and effectively **Proceedings of the International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025)** Piyush Ranjan,Sumit Kumar Pandey,Kailash Pati Dutta,Md. Irfan Alam,2025-08-18 This open access volume presents select proceedings of Recent Advances in Artificial Intelligence for Sustainable Development RAISD **Recent Advances on Soft Computing and Data Mining** Tutut Herawan,Rozaida Ghazali,Mustafa Mat Deris,2014-05-29 This book constitutes the refereed proceedings of the First International Conference on Soft Computing and Data Mining SCDM 2014 held in Universiti Tun Hussein Onn Malaysia in June 16th 18th 2014 The 65 revised full papers presented in this book were carefully reviewed and selected from 145 submissions and organized into two main topical sections Data Mining and Soft Computing The goal of this book is to provide both theoretical concepts and especially practical techniques on these exciting fields of soft computing and data mining ready to be applied in real world applications The exchanges of views pertaining future research directions to be taken in this field and the resultant dissemination of the latest research findings makes this work of

immense value to all those having an interest in the topics covered

Recent Advances in Systems, Control and Information Technology Roman Szewczyk, Małgorzata Kaliczyńska, 2016-11-29 This book presents the proceedings of the International Conference on Systems Control and Information Technologies 2016 It includes research findings from leading experts in the fields connected with INDUSTRY 4.0 and its implementation especially intelligent systems advanced control information technologies industrial automation robotics intelligent sensors metrology and new materials Each chapter offers an analysis of a specific technical problem followed by a numerical analysis and simulation as well as the implementation for the solution of a real world problem

Recent Advances in Time Series Forecasting Dinesh C.S. Bisht, Mangey Ram, 2021-09-08 Future predictions are always a topic of interest Precise estimates are crucial in many activities as forecasting errors can lead to big financial loss The sequential analysis of data and information gathered from past to present is called time series analysis This book covers the recent advancements in time series forecasting The book includes theoretical as well as recent applications of time series analysis It focuses on the recent techniques used discusses a combination of methodology and applications presents traditional and advanced tools new applications and identifies the gaps in knowledge in engineering applications This book is aimed at scientists researchers postgraduate students and engineers in the areas of supply chain management production inventory planning and statistical quality control

Recent Advances in Neuromorphic Computing, 2025-07-02 Artificial Intelligence AI is a transformative technology that reshapes our daily lives Machine Learning ML the engine of such a revolution empowers computers to learn from data driving innovation in areas such as medicine robotics and smart cities through edge applications These applications bring AI processing closer to the data source enabling real time insights and decisions This evolution is fueled by advancements in hardware and architecture 1 neuromorphic computing promises unparalleled efficiency 2 in memory computing eliminates data access bottlenecks while emerging memory materials offer denser faster and more energy efficient storage Looking ahead AI promises even more profound changes For instance explainable AI will make decision making more transparent and truly autonomous systems will adapt to unforeseen circumstances Last but not least the convergence of AI with quantum computing could unlock entirely new possibilities This journey showcases a deep understanding of both the theoretical foundations and practical applications of AI It also demands careful consideration of ethical implications and a commitment to responsible development ensuring that AI benefits all of humanity

Recent Advances in Pharmaceutical Innovation and Research Prati Pal Singh, 2023-09-11 This book covers several important aspects of pharmaceutical research and innovations It presents important topics on drug delivery novel microsphere nanocrystals polymeric nanoparticles peptide synthesis biopharmaceuticals pharmacodynamics yeast flocculation neuromodulators innovative drug discovery pharmacoinformatics aminoquinoline thiourea crystals for API synthesis FDCs and formulations research ayurveda and natural products and innovations to militate anti microbial resistance AMR A chapter is devoted to the applications of Artificial Intelligence and Machine Learning in diverse sectors of

the pharmaceutical industry including drug discovery and development drug repurposing and improving pharmaceutical productivity The book also reviews the role of pharmacogenomics and pharmacogenetics in drug development and precision medicine Further the book presents an updated summary of recent advances in the fields of nanomedicines and nano based drug delivery systems This book is useful to pharmaceutical sciences students researchers educators and professionals in the pharmaceutical industry to understand the intricacies of new drug research and innovations *Biosensors: Recent advances and mathematical challenges* Johann F. Osma, Margarita Stoytcheva, 2014-03-04

Many researchers and research groups around the globe are dealing with interdisciplinary problems and multidisciplinary groups but especially those that deal everyday with biosensors have the feeling of not having enough personnel with the sufficient background to cover all topics With this feeling in our minds we decided to invite wonderful researchers from different parts to design this book not as a conventional biosensors book but as an interesting journey in the complex world of biosensors A close look to some recent and key advances on the topic but at the same time tips through novel mathematical modelling to improve our work and last but not least tricks to fool those undesired electrical disturbances that commonly messes our daily work can be found in these pages Feel free to navigate the book through its chapters once in your hands you will feel eager to learn more about biosensors It has been an experience to put all this together but now with the book ready we can say that this trip has being a wonderful adventure That is why want to thank all the authors for their great contributions the Editorial and Irene for their constant input and to you the reader for being part of this book

Recent Advances in Mathematical Sciences

Adem Kılıçman, Hari M. Srivastava, M. Mursaleen, Zanariah Abdul Majid, 2016-02-26 This book features selected papers from The Seventh International Conference on Research and Education in Mathematics that was held in Kuala Lumpur Malaysia from 25 27th August 2015 With chapters devoted to the most recent discoveries in mathematics and statistics and serve as a platform for knowledge and information exchange between experts from academic and industrial sectors it covers a wide range of topics including numerical analysis fluid mechanics operation research optimization statistics and game theory It is a valuable resource for pure and applied mathematicians statisticians engineers and scientists and provides an excellent overview of the latest research in mathematical sciences

Recent Advances in Science, Engineering & Technology

Nishu Gupta, Sandeep S. Joshi, Milind Khanapurkar, Asha Gedam, Nikhil Bhawe, 2024-08-05 The advances in technology engineering and science are necessary for better and sustainable life It is not only beneficial for human growth but equally important for all the living and non living matters on the planet Hence it is imperative to come together and share the knowledge innovations and developments in the technology and science happening around The objective of 1st International Conference on Recent Advances in Science Engineering Technology ICRASET 2023 was to provide platform to share various hypotheses conclusions and discoveries from students researchers professors and industry experts The conference was associated with the knowledge partners like ASM International IEEE IETE ISTE CSI and IE

Time Series Analysis -

Recent Advances, New Perspectives and Applications Jorge Rocha, Sandra Oliveira, Cláudia Viana, 2024-05-22 Time series analysis describes explains and predicts changes in a phenomenon through time People have utilized techniques that add a distinctive spatial dimension to this type of analysis Major applications of spatiotemporal analysis include forecasting epidemics analyzing the development of traffic conditions in urban networks and forecasting backcasting economic risks such as those associated with changing house prices and the occurrence of hazardous events This book includes contributions from researchers scholars and professionals about the most recent theory models and applications for interdisciplinary and multidisciplinary research encircling disciplines of computer science mathematics statistics geography and more in time series analysis and forecasting backcasting *Recent Advances in Artificial Life* Hussein A. Abbass, Terry Richard John Bossomaier, Janet Wiles, 2005 The central ideas of the book surround genetics and evolution in an artificial life framework Topics covered include maintenance of genetic diversity hierarchical structures and stability of ecosystems Underpinning these topics are key theoretical developments surrounding network complexity the development of pattern languages for complex networks and a deeper understanding of the edge of chaos where complex systems live Practical applications include optimization gene regulatory networks modeling the spread of disease and the evolution of ageing World Scientific Publishing Company website viewed 13 April 2010 [Induction Motors - Recent Advances, New Perspectives and Applications](#) Adel El-Shahat, 2023-09-13 The induction motor is one of the most significant innovations in contemporary history and it officially kicked off the Second Industrial Revolution by significantly enhancing energy generation efficiency Induction motors are utilized in a wide variety of applications in the modern industrial world Motivated by the importance of recent advances new perspectives and applications of induction motors this book presents research from distinguished experts in the field It addresses recent advances in induction motors optimal solutions in field oriented control the association of converters to induction motors dynamic analysis optimized design of synergetic control fault tolerant control mathematical modeling an adaptive system scheme for a sensorless drive modeling and simulation of a system with inter turn faults sensorless speed observer for industrial drives and induction motor applications in electric vehicles This book is useful for undergraduates graduate students researchers professors and field engineers due to its combination of both theoretical coverage and real world application concepts *Recent Advances in Structural Engineering*, 2005-02 This book contains state of the art review articles on specific research areas in the civil engineering discipline the areas include geotechnical engineering hydraulics and water resources engineering and structural engineering The articles are written by invited authors who are currently active at the international level in their respective research fields [Recent Advances in Electrical and Information Technologies for Sustainable Development](#) Soumia El Hani, Mohamad Essaaidi, 2019-02-08 The book includes the best extended papers which were selected from the 3rd International Conference of Electrical and Information Technologies ICEIT 2017 Morocco The book spans two inter related research domains which shaped modern

societies solved many of their development problems and contributed to their unprecedented economic growth and social welfare Selected papers are based on original and high quality research They were peer reviewed by experts in the field They are grouped into five parts Part I deals with Power System and Electronics topics that include Power Electronics Energy Conversion Actuators Micro Nanotechnology etc Part II relates to Control Systems and their applications Part III concerns the topic of Information Technology that basically includes Smart Grid Information Security Cloud Computing Distributed Big Data etc Part IV discusses Telecommunications and Vehicular Technologies topics that include Green Networking and Communications Wireless Ad hoc and Sensor Networks etc Part V covers Green Applications and Interdisciplinary topics that include intelligent and Green Technologies for Transportation Systems Smart Cities etc This book offers a good opportunity for young researchers novice scholars and whole academic sphere to explore new trends in Electrical and information Technologies

Analytical Methods in Petroleum Upstream Applications Cesar Ovalles, Carl E. Rechsteiner Jr., 2015-04-02 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components classes of compounds properties and features of petroleum and its fractions Recognized experts explore a host of topics including A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil in water measurements and monitoring The chemical and physical properties of heavy oils their fractions and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance NMR applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream midstream and downstream operations Due to the renaissance of gas and oil production in North America interest has grown in analytical methods for a wide range of applications The understanding provided in this text is designed to help chemists geologists and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations providing insight into optimum development and extraction schemes

Recent Advances in Intelligent Engineering Levente Kovács, Tamás Haidegger, Anikó Szakál, 2024-08-06 The book publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The book contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and

hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this book leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary computing intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems

Recent Advances in Mechanical Engineering Premananda Pradhan,Binayak Pattanayak,Harish Chandra Das,Pinakeswar Mahanta,2022-06-03 This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development ICRAMERD 21 It covers the latest research trends in various branches of mechanical engineering The topics covered include materials engineering industrial system engineering manufacturing systems engineering automotive engineering thermal systems smart composite materials manufacturing processes industrial automation and energy system The book will be a valuable reference for beginners researchers engineers and industry professionals working in the various fields of mechanical engineering

Whispering the Strategies of Language: An Emotional Quest through **Recent Advances In Artificial Neural Networks**

In a digitally-driven earth where monitors reign supreme and immediate communication drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases frequently get unheard. However, nestled within the pages of **Recent Advances In Artificial Neural Networks** a charming literary treasure pulsing with organic feelings, lies a fantastic journey waiting to be undertaken. Published by a talented wordsmith, this charming opus encourages visitors on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the emotional depths of this emotional evaluation, we can embark upon a genuine exploration of the book's core styles, dissect their captivating writing model, and fail to the powerful resonance it evokes serious within the recesses of readers' hearts.

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