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SHORT TERM LOAD FORECASTING USING HYBRID NEURO- WAVELET MODEL

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ABSTRACT

As the accuracy of the electricity load forecast in the is crucial in providing better cost effective risk management plans, this paper proposes a Short Term Electricity Load Forecast (STLF) model with a high forecasting accuracy. A cascaded forward BPN neuro-wavelet forecast model is adopted to perform the STLF. The model is composed of several neural networks whose data are processed using a wavelet technique. The data to be used in the model is electricity load historical data. The historical electricity load data is decomposed into several wavelet coefficient using the Discrete wavelet transform (DWT). The wavelet coefficients are used to train the neural networks (NNs) and later, used as the inputs to the NNs for electricity load prediction. The Levenberg-Marquardt (LM) algorithm is selected as the training algorithm for the NNs. To obtain the final forecast, the outputs from the NNs are recombined using the same wavelet technique.

Keywords - STLF, BPN and DWT.

1. INTRODUCTION

Short term load forecasting (STLF) has taken over a vital role in the operation and planning of power systems since the price depends critically on the accuracy of a load forecast. Forecasting of electricity load demand on half hourly or hourly basis, from one day to many days ahead is referred as Short Term Load Forecasting (STLF).

The aim of STLF is to predict the future electricity load based on the recognition of similar repeating trends of patterns from historical load data [1]. Normally, there are two different methods of forecasting models - the traditional models and the modern techniques.

Neural Wavelet Based Hybrid Model For Short Term Load

Ismail Musirin,Shahril Irwan Sulaiman

Neural Wavelet Based Hybrid Model For Short Term Load:

Mathematical Models, Methods and Applications Abul Hasan Siddiqi, Pammy Manchanda, Rashmi Bhardwaj, 2015-12-14 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 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

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

Next-Generation Green Energy Technologies for Sustainable Development Surender Reddy Salkuti, 2025-10-31 This book aims to find solutions to various issues starting from integration and control of next generation grids hybrid power generation electric vehicles energy storage forecasting wide area monitoring electrical markets communication coordinated control and protection empowering the customer with tools for optimizing their energy consumption and security for the effective reliable and risk free operation of the power networks There is a requirement to conduct a comprehensive analysis of the integration of a large number of EVs and their impact on various sectors of society This book also discusses the applications of advanced power electronics intelligent control techniques effective energy management EV charging networks the impact of EV load on distribution systems economic analysis and power markets advanced flexibility strategies for smart grids recent advances in energy storage and research directions emerging fields such as artificial intelligence internet of things and machine learning Several developments in green energy technologies have gained momentum in recent years This book considers the nuances of new paradigms including green energy technologies smart grid components the impact of energy storage electric vehicles and distributed energy resources in the power networks It provides illustrative and comprehensive strategies to furnish pragmatic solutions to multifaceted challenges ushering in a new era of heightened efficiency unwavering reliability and enhanced overall performance in modern smart and hybrid energy systems

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-07-26 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 designed for use by IT professionals researchers and graduate students studying intelligent computing Increasing Penetration of Renewable Sources in Power Systems: Opportunities and Challenges Xue Lyu, Minghao Wang, Siqi Bu, Tao Liu, Jiajia Yang, 2023-04-27 *Power Electrical Systems* Faouzi Derbel, Nabil Derbel, Olfa Kanoun, 2018-07-23 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 Variable speed generating systems Transformers *Applications of Artificial Intelligence and Data Science* Mufti Mahmud, Nelishia Pillay, M Shamim Kaiser, 2025-09-30 This CCIS post conference volume constitutes the proceedings of First Global Conference on Applications of Artificial Intelligence and Data Science AAIDS 2024 in London UK April 2024 The 30 full papers presented were carefully reviewed and selected from 147 submissions They were focused on topical sections as follows Advanced Computing and Statistics Data Science and Hybrid AI Systems **Pervasive Computing and Social Networking** G. Ranganathan, Robert Bestak, Ram Palanisamy, Álvaro Rocha, 2022-01-01 The book features original papers from International Conference on Pervasive Computing and Social Networking ICPCSN 2021 organized by NSIT Salem India during 19-20 March 2021 It covers research works on conceptual constructive empirical theoretical and practical implementations of pervasive computing and social networking methods for developing more novel ideas and innovations in the growing field of information and communication technologies **Recent Trends in Power Engineering** Ismail Musirin, Shahril Irwan Sulaiman, 2015-08-24 Selected peer reviewed papers from the

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Institution of Engineers (India)**, 2002 *Science Abstracts*, 1995 *Index to IEEE Publications* Institute of Electrical
and Electronics Engineers, 1997 Conference Proceedings IEEE Power Engineering Society. Winter Meeting, 2001

The Top Books of the Year Neural Wavelet Based Hybrid Model For Short Term Load The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year.

Neural Wavelet Based Hybrid Model For Short Term Load : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. **Uncover the Best :**

Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Neural Wavelet Based Hybrid Model For Short Term Load : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. **The Secret History** is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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