



The Wave Height Prediction in Java Sea using ANFIS and Supported by Android as User Interface

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INTRODUCTION

Adaptive Neuro Fuzzy Inference System (ANFIS) is one of the machine learning algorithms that is widely used for various decision making, and one of them is to predict. ANFIS as a hybrid expertise system, a combination of ANN and FIS, is widely used for forecasting weather variables and sea climate, including for forecasting wind speed, significant wave height in the north sea [1]. Maritime weather prediction is needed by sea users, especially for fishermen, in relation to determining their shipping schedule [2]. Several maritime weather predictor methods have been used by many previous researchers, in various cases, for example the prediction of extreme wave heights in the South China Sea, used a Peaks-Over-Threshold (POT) analysis, wave height predictions in Japanese waters. [3], [4]. Both methods are based on mathematical models. The method for predictors is based on AI namely the ANN methods [5], and Fuzzy – NN [6]. Development of methods for predicting maritime weather in the Java Sea, carried out with the ANFIS method. Predictors are designed, based on input data of wind speed, the wave height in the present and in 1 hour before. Data for training using in hourly data of wave heights from BMKG in 2014-2015. The two input variables are expressed in the form of fuzzy variables with the bell membership function. The predictor results are displayed via the android user interface. The real weather database is stored in mySQL. This database is automatically updated when the predictor system on the server is operated. Interconnecting predictors with the user interface is shown in Figure 1 below.

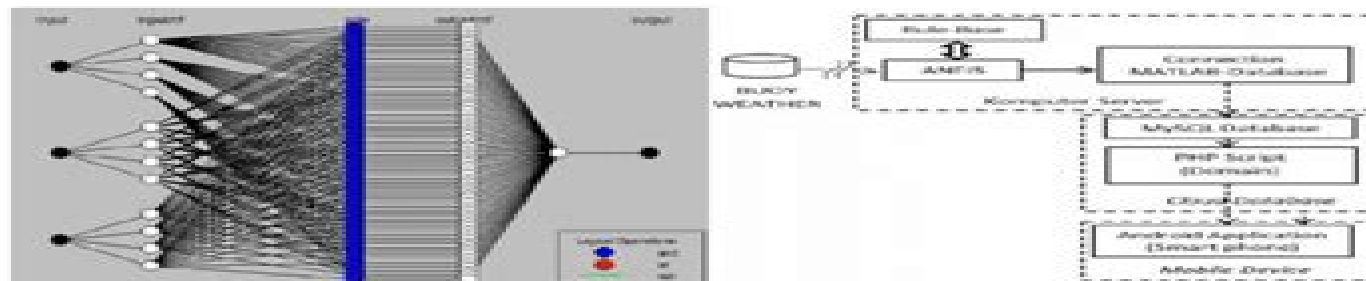
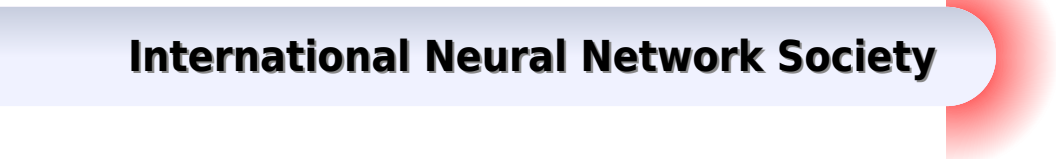


Figure 1. (a) ANFIS Architecture of Significant Wave Height Prediction, (b) Interconnection Predictor of Wave Height System

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Smart and Innovative Trends in Next Generation Computing Technologies Pushpak Bhattacharyya, Hanumat G. Sastry, Venkatadri Marriboyina, Rashmi Sharma, 2018-06-08 The two volume set CCIS 827 and 828 constitutes the thoroughly refereed proceedings of the Third International Conference on Next Generation Computing Technologies NGCT 2017 held in Dehradun India in October 2017 The 135 full papers presented were carefully reviewed and selected from 948 submissions There were organized in topical sections named Smart and Innovative Trends in Communication Protocols and Standards Smart and Innovative Trends in Computational Intelligence and Data Science Smart and Innovative Trends in Image Processing and Machine Vision Smart Innovative Trends in Natural Language Processing for Indian Languages Smart Innovative Trends in Security and Privacy *Concepts of Biophysics* Arvind Kumar, 2005 **Fuzzy Techniques: Theory and Applications** Ralph Baker Kearfott, Ildar Batyrshin, Marek Reformat, Martine Ceberio, Vladik Kreinovich, 2019-06-10 This book describes the latest findings related to fuzzy techniques discussing applications in control economics education humor studies industrial engineering linguistics management marketing medicine and public health military engineering robotics ship design sports transportation and many other areas It also presents recent fuzzy related algorithms and theoretical results that can be used in other application areas Featuring selected papers from the Joint World Congress of the International Fuzzy Systems Association IFSA and the Annual Conference of the North American Fuzzy Information Processing Society NAFIPS IFSA NAFIPS 2019 held in Lafayette Louisiana USA on June 18 21 2019 the book is of interest to practitioners wanting to use fuzzy techniques to process imprecise expert knowledge It is also a valuable resource for researchers wishing to extend the ideas from these papers to new application areas for graduate students and for anyone else interested in problems involving fuzziness and uncertainty **Computational Intelligence for Modelling, Control & Automation** Masoud Mohammadian, 1999 This edited Book is dedicated to the theory and applications of Evolutionary Computation and Fuzzy Logic for Intelligent Control Knowledge Acquisition and Information Retrieval The book consists of 86 selected research papers from the 1999 International Conference on Computational Intelligence for Modelling Control and Automation CIMCA 99 The research papers presented in this book cover new techniques and applications in the following research areas Evolutionary Computation Fuzzy Logic and Expert Systems with their applications for Optimisation Learning Control Scheduling and Multi Criteria Analysis as well as Reliability Assessment Information Retrieval and Knowledge Acquisition **Innovation in Smart and Sustainable Infrastructure, Volume 2** Dhruvesh Patel, Byungmin Kim, Dawei Han, 2024-08-01 This book presents select peer reviewed proceedings of the International Conference on Innovation in Smart and Sustainable Infrastructure ISSI2022 The contents focus on smart infrastructure and cites construction and infrastructure project management application of building information modelling sustainable materials and methods for road construction smart technologies applications and services for transportation systems remote sensing and

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Society of India with the theme ICT and Critical Infrastructure The convention was held during 13th 15th December 2013 at Hotel Novotel Varun Beach Visakhapatnam and hosted by Computer Society of India Vishakhapatnam Chapter in association with Vishakhapatnam Steel Plant the flagship company of RINL India This volume contains papers mainly focused on Computational Intelligence and its applications Mobile Communications and social Networking Grid Computing Cloud Computing Virtual and Scalable Applications Project Management and Quality Systems and Emerging Technologies in hardware and Software

Recent Advances in Industrial Machines and Mechanisms Sanjoy K. Ghoshal, Arun K. Samantaray, Sandipan Bandyopadhyay, 2024-01-04 This book presents select proceedings of the Conference on Industrial Problems on Machines and Mechanisms IPRoMM 2022 It presents a comprehensive coverage of the recent developments in analysis design and manufacturing of a range of modern and next generation industrial machines and solutions to mitigate common and emerging problems in their maintenance and operation The topics covered include design manufacturing and performance analysis of mechanical and mechatronic machine components and assemblies machine dynamics including rotor dynamics vehicle dynamics and multi body dynamics robotics and automation hydraulic and pneumatic systems and control vibration engineering tribology condition monitoring failure analysis manufacturing systems and processes reliability and quality engineering thermo fluid and combustion systems aerospace systems acoustics automotive engineering etc The book discusses theoretical and practical developments in these fields which have direct industrial relevance The book serves as a valuable reference for researchers and professionals interested in analysis design manufacturing maintenance and operation of industrial machinery

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Real-Time Rendering Gabriyel Wong, Jianliang Wang, 2017-12-19 Consumers today expect extremely realistic imagery generated in real time for interactive applications such as computer games virtual prototyping and scientific visualisation However the increasing demands for fidelity coupled with rapid advances in hardware architecture pose a challenge how do you find optimal sustainable solutions to accommodate both speed of rendering and quality Real Time Rendering Computer Graphics with Control Engineering presents a novel framework for solving the perennial challenge of resource allocation and the trade off between quality and speed in interactive computer graphics rendering Conventional approaches are mainly based on heuristics and algorithms are largely application specific and offer fluctuating performance particularly as applications become more complex The solution proposed by the authors draws on powerful concepts from control engineering to address these shortcomings Expanding the horizon of real time rendering techniques this book Explains how control systems work with real time computer graphics Proposes a data driven modelling approach that more accurately

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Annual Meeting of the North American Fuzzy Information Processing Society--NAFIPS. North American Fuzzy Information Processing Society. Annual Meeting,2005

Fuzzy Logic Elmer Dadios,2012-03-28 Fuzzy Logic is becoming an essential method of solving problems in all domains It gives tremendous impact on the design of autonomous intelligent systems The purpose of this book is to introduce Hybrid Algorithms Techniques and Implementations of Fuzzy Logic The book consists of thirteen chapters highlighting models and principles of fuzzy logic and issues on its techniques and implementations The intended readers of this book are engineers researchers and graduate students interested in fuzzy logic systems

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Advances in Material Sciences and Engineering Mokhtar Awang, Seyed Sattar Emamian, Farazila Yusof, 2019-09-19 This book presents selected papers from the 4th International Conference on Mechanical Manufacturing and Plant Engineering ICMMPPE 2018 which was held in Melaka Malaysia from the 14th to the 15th of November 2018 The proceedings discuss genuine problems concerning joining technologies that are at the heart of various manufacturing sectors In addition they present the outcomes of experimental and numerical works addressing current problems in soldering arc welding and solid state joining technologies

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Table of Contents **Anfis User Guide**

1. Understanding the eBook **Anfis User Guide**
 - The Rise of Digital Reading **Anfis User Guide**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Anfis User Guide**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Anfis User Guide**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Anfis User Guide**
 - Personalized Recommendations
 - **Anfis User Guide** User Reviews and Ratings
 - **Anfis User Guide** and Bestseller Lists

5. Accessing Anfis User Guide Free and Paid eBooks
 - Anfis User Guide Public Domain eBooks
 - Anfis User Guide eBook Subscription Services
 - Anfis User Guide Budget-Friendly Options
6. Navigating Anfis User Guide eBook Formats
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8. Staying Engaged with Anfis User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anfis User Guide
9. Balancing eBooks and Physical Books Anfis User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anfis User Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Anfis User Guide
 - Setting Reading Goals Anfis User Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Anfis User Guide
 - Fact-Checking eBook Content of Anfis User Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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