



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.

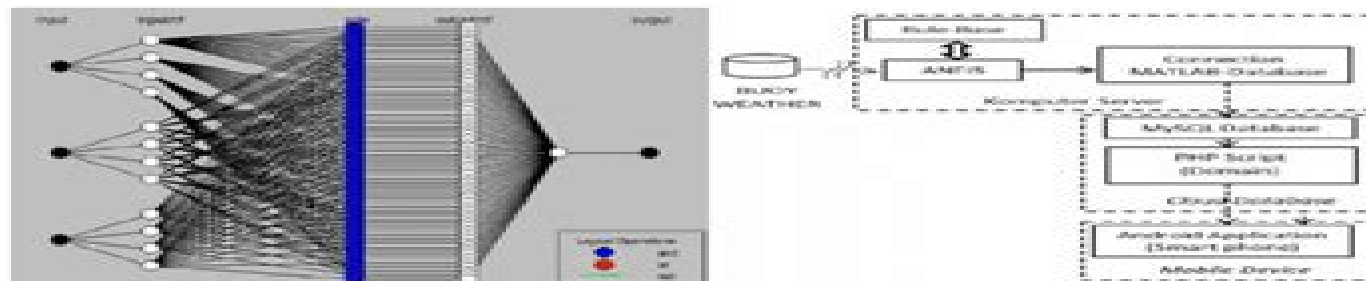


Figure 1. (a) ANFIS Architecture of Significant Wave Height Prediction, (b) Interconnection Predictor of Wave Height System

Anfis User Guide

Dhruvesh Patel, Byungmin Kim, Dawei Han

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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

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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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