



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

Syamsul Arifin^{*1}, Aulia Siti Aisjah² and Heru Susanto³

^{1, 2, 3} Engineering Physics Department, Institut Teknologi Sepuluh Nopember, INDONESIA
(E-mail: syamp3ai@its.ac.id, syamp3ai@gmail.com, auliasa@ep.its.ac.id, auliasa20@gmail.com)

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.

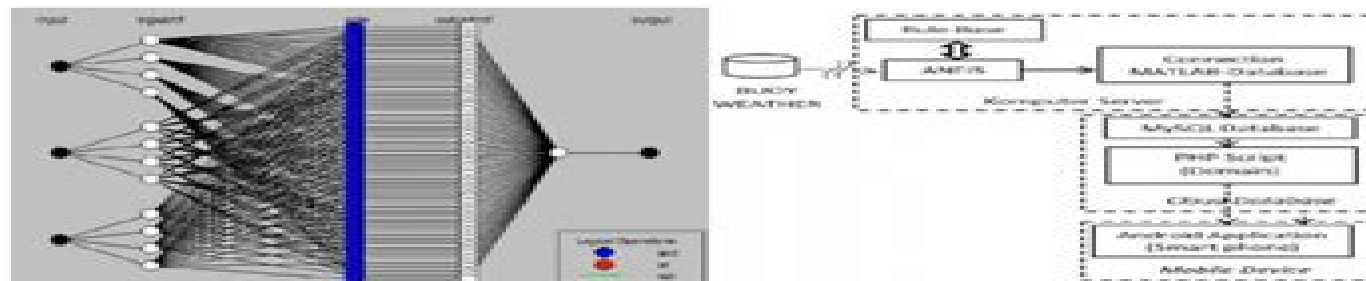


Figure 1. (a) ANFIS Architecture of Significant Wave Height Prediction, (b) Interconnection Predictor of Wave Height System

Anfis User Guide

**Derong Liu, Shumin Fei, Zeng-Guang
Hou, Huaguang Zhang, Changyin Sun**

Anfis User Guide:

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

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

Concepts of Biophysics Arvind Kumar, 2005

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 GIS for water resources management climate change and prediction analysis model simulation and analysis seismic engineering and soil dynamics innovation geo materials and geosynthetics computational geotechnics emerging technologies in smart mobility and transport planning among others This volume will be useful for researchers and professionals in civil engineering and allied fields

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 **Fuzzy Logic Toolbox**, 2001 **Advances in Neural Networks - ISSN 2007** Derong Liu, Shumin Fei, Zeng-Guang Hou, Huaguang Zhang, Changyin Sun, 2007-07-14 This book is part of a three volume set that constitutes the refereed proceedings of the 4th International Symposium on Neural Networks ISSN 2007 held in Nanjing China in June 2007 Coverage includes neural networks for control applications robotics data mining and feature extraction chaos and synchronization support vector machines fault diagnosis detection image video processing and applications of neural networks **WCNN'96, San Diego, California, U.S.A.** International Neural Network Society, 1996

Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2013 Suresh Chandra Satapathy, Siba K Udgata, Bhabendra Narayan Biswal, 2013-10-05 This volume contains the papers presented at the Second International Conference on Frontiers in Intelligent Computing Theory and Applications FICTA 2013 held during 14 16 November 2013 organized by Bhubaneswar Engineering College BEC Bhubaneswar Odisha India It contains 63 papers focusing on application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm particle swarm optimization techniques teaching learning based optimization etc for various engineering applications such as data mining Fuzzy systems Machine Intelligence and ANN Web technologies and Multimedia applications and Intelligent computing and Networking etc **ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol I** Suresh Chandra Satapathy, P. S. Avadhani, Siba K. Udgata, Sadasivuni Lakshminarayana, 2013-10-19 This volume contains 88 papers presented at CSI 2013 48th Annual Convention of Computer 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 **Intelligent Systems in Production Engineering and Maintenance - ISPEM 2017** Anna Burduk, Dariusz Mazurkiewicz, 2017-08-16 The volume presents a collection of 44 peer reviewed articles from the First International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2017 ISPEM 2017 was organized by the Faculty of Mechanical Engineering Wroc aw University of Science and Technology and was held in Wroc aw Poland on 28 29 September 2017 The main topics of the conference included the possibility of using widely understood intelligent methods in production engineering New solutions for innovative plants

research results and case studies taking into account advances in production and maintenance from the point of view of Industry 4.0 were presented and discussed with special attention paid to applications of intelligent systems methods and tools in production engineering maintenance logistics quality management information systems and product development. The volume is divided into two parts: 1 Intelligent Systems in Production Engineering 2 Intelligent Systems in Maintenance. This book is an excellent reference resource for scientists in the field of manufacturing engineering and for top managers in production enterprises. 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. Intelligent Systems and Applications Yaxin Bi, Rahul Bhatia, Supriya Kapoor, 2019-08-23. The book presents a remarkable collection of chapters covering a wide range of topics in the areas of intelligent systems and artificial intelligence and their real world applications. It gathers the proceedings of the Intelligent Systems Conference 2019 which attracted a total of 546 submissions from pioneering researchers scientists industrial engineers and students from all around the world. These submissions underwent a double blind peer review process after which 190 were selected for inclusion in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle a host of problems more effectively. This branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for an international conference as a venue for reporting on the latest innovations and trends. This book collects both theory and application based chapters on virtually all aspects of artificial intelligence presenting state of the art intelligent methods and techniques for solving real world problems along with a vision for future research. It represents a unique and valuable asset.

Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions Khan, Mohammad Ayoub, Ansari, Abdul Quaiyum, 2012-03-31. This book is the best source for the most current relevant cutting edge research in the field of industrial informatics focusing on different methodologies of information

technologies to enhance industrial fabrication intelligence and manufacturing processes Provided by publisher 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 represents the system behaviour of the rendering process Develops a control system strategy for linear and non linear models using proportional integral derivative PID and fuzzy control techniques Uses real world data from rendering applications in proof of concept experiments Compares the proposed solution to existing techniques Provides practical details on implementation including references to tools and source code This pioneering work takes a major step forward by applying control theory in the context of a computer graphics system Promoting cross disciplinary research it offers guidance for anyone who wants to develop more advanced solutions for real time computer graphics rendering **Modern Research and Investigations in**

Natural and Mathematical Sciences-II Çiğdem SAYIL,Güzide ŞENEL,2024-10-16 **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 Integrated Models for Information Communication Systems and Networks: Design and Development Atayero, Aderemi Aaron Anthony,Sheluhin, Oleg I.,2013-06-30 With current advancements in the modeling and simulation of systems and networks researchers and developers are better able to determine the probable state of current systems and envision the state of future systems during the design stage The uses and accuracies of these models are essential to every aspect of communication systems Integrated Models for Information Communication Systems and Networks Design and Development explores essential information and current research findings on information communication systems and networks This reference source aims to assist professionals in the desire to enhance their knowledge of modeling at systems level with the aid of modern software packages **Soft Computing in**

Engineering Design and Manufacturing Pravir K. Chawdhry, Rajkumar Roy, Raj K. Pant, 2012-12-06 Soft Computing has emerged as an important approach towards achieving intelligent computational paradigms where key elements are learning from experience in the presence of uncertainties fuzzy belief functions and evolution of the computing strategies of the learning agent itself Fuzzy neural and evolutionary computing are the three major themes of soft computing The book presents original research papers dealing with the theory of soft computing and its applications in engineering design and manufacturing The methodologies have been applied to a large variety of real life problems Application of soft computing has provided the opportunity to integrate human like vagueness and real life uncertainty to an otherwise hard computer programme Now a computer programme can learn adapt and evolve using soft computing The book identifies the strengths and limitations of soft computing techniques particularly with reference to their engineering applications The applications range from design optimisation to scheduling and image analysis Goal optimisation with incomplete information and under uncertainty is the key to solving real life problems in design and manufacturing Soft computing techniques presented in this book address these issues Computational complexity and efficient implementation of these techniques are also major concerns for realising useful industrial applications of soft computing The different parts in the book also address these issues The book contains 9 parts 8 of which are based on papers from the 2nd On line World Conference on Soft Computing in Engineering Design and Manufacture WSC2 *Innovative Issues in Intelligent Systems* Vassil Sgurev, Ronald R. Yager, Janusz Kacprzyk, Vladimir Jotsov, 2016-02-05 This book presents a broad variety of different contemporary IT methods and applications in Intelligent Systems is displayed Every book chapter represents a detailed specific far reaching and original research in a respective scientific and practical field However all of the chapters share the common point of strong similarity in a sense of being innovative applicable and mutually compatible with each other In other words the methods from the different chapters can be viewed as bricks for building the next generation thinking machines as well as for other futuristic logical applications that are rapidly changing our world nowadays

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