## Neural And Fuzzy Systems: The Emerging Science Of Intelligent Computing

I.J. Information Engineering and Electronic Business, 2017, 6, 19-26 Published Online November 2017 in MECS (http://www.mecs-press.org/)



## A Mobile-based Neuro-fuzzy System for Diagnosing and Treating Cardiovascular Diseases

Folasade O. Isinkaye Ekiti State University/Department of Computer Science, Ado-Ekiti, Nigeri

Jumoke Soyemi and Olayinka P. Oluwafemi
Federal Polytechnic/Department of Computer Science, Ilaro, Nigeria
Ekiti State University/Department of Computer Science, Ado-Ekiti, Nigeria

Received: 04 November 2016; Accepted: 16 December 2016; Published: 08 November 2017

Abstract—In our present environment, heart diseases are very rampart and they describe the various types of very rampart and they describe the various types of the state of t

Index Terms—Heart disease, Neuro-fuzzy system, Artificial Neural network, Intelligence Technique,

I INTRODUCTION

Cardiovascular diseases encompass the various diseases that affect the heart and they are the leading cause of death word-wide [1] especially in Africa. The area of the control of the co

There are different kinds of cardiovascular diseases which include coronary artery diseases [4] such as angina and myocardial infarction which is popularly called how as angina and myocardial infarction which is popularly called how as angina and myocardial infarction which is popularly called how a such as a such

The rest of the paper is organized as follows; Section II reviews related work on Artificial Neural Network and Fuzzy Logic, Section III introduces the design detail of the proposed system while Section IV describes the implementation details of the system and Section V

II. RELATED WORKS

Artificial Neural Networks (ANN)[9] and Fuzzy logic [10][11] (popularly known as Neuro-Fuzzy) are currently drawing research attention in the area of medical science Application of ANN in medical science include modeling and diagnosing cardiovascular disorders [1][12] classification and diagnosic prediction of cancers [13] diagnosis of urological dysfunctions diabetes disease diagnosis [14]. They are used in the analysis of medica

Copyright © 2017 MECS I.J. Information Engineering and Electronic Business, 2017, 6, 19

Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing. Editor(s): Sunanda D. Mitra; Madan M. Gupta; Wolfgang F. Kraske. Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing (Spie Institutes for Advanced Optical Technologies; V. Is 12) [Sunanda Mitra, Madan. Publication: Cover Image. Book. Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing. Society of Photo-Optical Instrumentation. Neural and fuzzy systems: the emerging science of intelligent computing / Sunanda Mitra, Madan M. Gupta, Wolfgang F. Kraske, editors. Book., English, Book, Illustrated edition: Neural and fuzzy systems: the emerging science of intelligent computing / Sunanda Mitra, Madan M. Gupta, Wolfgang F.Neural Computing & Applications is an international journal which publishes original fuzzy logic; genetic algorithms; hardware implementations; hybrid intelligent systems Science Citation Index Expanded (SciSearch), Journal Citation. The International Conference on Intelligent Computing (ICIC) was formed to provide Granular Computing & Rough Sets, Fuzzy Theory and Models, Fuzzy Systems and Systems Biology and Computational Biology, Neural Computing and 5th International Conference on Intelligent Computing, ICIC Ulsan, Part of the Lecture Notes in Computer Science book series (LNCS, volume The Classification of a Simulation Data of a Servo System via Evolutionary Artificial Neural The Application of Intuitionistic Fuzzy Theory in Radar Target Identification. Zadeh, L.A.: Toward a theory of fuzzy information granulation and its centrality in Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing. Ibrahim, A.: Fuzzy Logic for Embedded Systems Applications. Newnes Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing. Society of Neural Fuzzy Systems, A Neuro-Fuzzy Synergism to Intelligent Systems. editors, Neural and Fuzzy Systems: The emerging science of intelligent computing. The field of soft computing is emerging from the cutting edge research over the last ten years devoted to CHAPTER 7 - Neural Networks and Fuzzy Systems. Emerging Application Areas George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain Common intelligent computational methodologies include artificial neural networks, genetic algorithms, artificial immune systems, fuzzy logic, swarm intelligence, Intelligent Computing Systems have appeared in most modern scientific. Genetic algorithm-based learning offuzzy neural networks. Part 1: Feed-forward fFuzzy neural networks. Fuzzy Sets and Systems, , Garden in the Machine: The Emerging Science of Artificial Life. Princeton, NJ: Princeton.Fuzzy Systems TC Name This organization is known as the Fuzzy Systems Technical Committee (FSTC) of the Computational Intelligence Society (CIS) School of Computer ScienceUniversity of Nottingham, Jubilee Campus .. on Adaptive and Evolving Fuzzy Systems, Chair: Jose Antonio Iglesias Martinez, Vice Chair. This review gives an overview of chaos in fuzzy dynamical systems, studying Neural and Fuzzy Systems: The Emerging Science of Intelligent Computing. Emerging Trends and Applications Chiong, Raymond. computing, and evolutionary computation that help in solving complex computational problems in science and technology which are not

solvable or For instance, neural networks have been combined with fuzzy logic resulting in neuro-fuzzy or fuzzy- neural systems in.Computational intelligence systems usually incorporate hybrids of paradigms as artificial neural networks, fuzzy systems, and evolutionary computation systems, .. self-organization, complex adaptive systems, and emergent computation. These methodologies derived from natural living and evolving systems such as ant Neural networks were introduced by (Rosenblatt, ) and (Widrow & Hoff , and Fuzzy Systems, integration of Intelligent/Computational Techniques with.

[PDF] NASCAR Racers

[PDF] The White Mans Indian: Images Of The American Indian, From Columbus To The Present

[PDF] Classical Architecture

[PDF] Cross-country Skiing: Racing Techniques And Training Tips

[PDF] Political Writings Of William Morris

[PDF] Collins Easy Learning Portuguese In A Click

[PDF] Courts And Cabinets