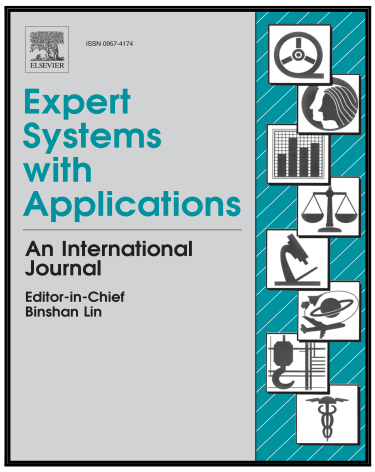

An Integrated Decision Support System Based on ANN and Fuzzy_AHP for Heart Failure Risk Prediction

Oluwarotimi Williams Samuel , Grace Mojisola Asogbon , Arun Kumar Sangaiah , Fang Peng , Guanglin Li

PII: S0957-4174(16)30551-6
DOI: 10.1016/j.eswa.2016.10.020
Reference: ESWA 10925

To appear in: *Expert Systems With Applications*

Received date: 25 February 2016
Revised date: 10 October 2016
Accepted date: 11 October 2016

Please cite this article as: Oluwarotimi Williams Samuel , Grace Mojisola Asogbon , Arun Kumar Sangaiah , Fang Peng , Guanglin Li , An Integrated Decision Support System Based on ANN and Fuzzy_AHP for Heart Failure Risk Prediction , *Expert Systems With Applications* (2016), doi: 10.1016/j.eswa.2016.10.020

Second Revised Manuscript Submitted to Expert Systems With Applications (ESWA)

Highlights

- This study proposed a hybrid decision support method (ANN and Fuzzy_AHP) for heart failure prediction.
- The performance of the proposed method was examined using three performance metrics.
- From the evaluations results, the proposed method performed better than the conventional ANN approach
- The proposed method would provide improved and realistic result for efficient therapy administration.