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Abstract:

Heart disease has been one of the leading causes of mortality for individuals all around the world in recent years. The prognosis of heart disease would be difficult due to various risk factors such as diabetes, high blood pressure, improper pulse rate, and high cholesterol. Accurate and prompt identification of heart disease is necessary to prevent and treat heart failure. Machine learning techniques highly assist in the development of prediction models for heart disease and its early identification. Feature selection strategies are also used to identify features that are critical to achieve higher accuracy. The proposed model employs the Genetic algorithm to select suitable characteristics, and it also demonstrated that it outperforms the existing models that employ traditional feature selection methods.

Published in: 2023 7th International Conference on Intelligent Computing and Control Systems (ICICCS)

Date of Conference: 17-19 May 2023

DOI: 10.1109/ICICCS56967.2023.10142858

Date Added to IEEE Xplore: 08 June 2023

Publisher: IEEE



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► ISBN Information:

Conference Location: Madurai, India

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I. Introduction

Heart Disease (HD) is considered as the most serious illness that affects people and has a big impact on our daily lives. When the heart cannot pump enough blood to other regions of the body, heart disease occurs. Some contributing factors include high blood pressure, diabetes, and high-level cholesterol, make it harder to diagnose heart disease. To prevent and cure heart failure, precise and quick identification of heart disease is required [1].

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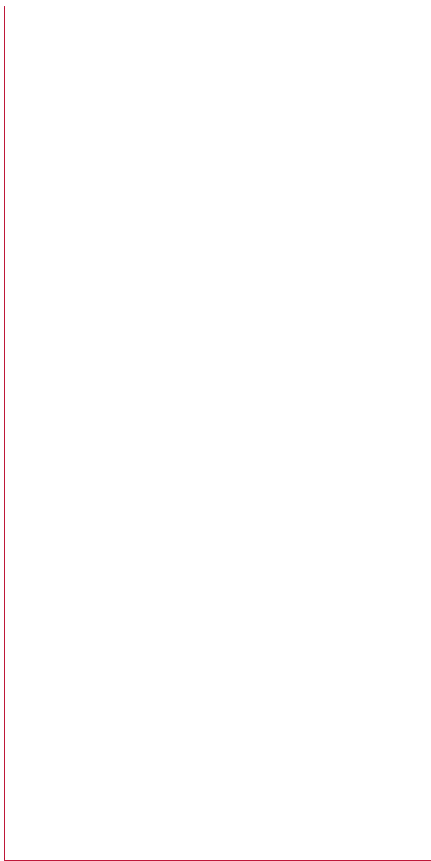
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