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Adaptive Context Aware Decision Computing Paradigm for Intensive Health Care Delivery in Smart Cities – A Case Analysis

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Highlights

- An adaptive context aware decision computing paradigm healthcare delivery in smart cities is proposed
- The proposed system was built by using RBF SVM and LKF SVM to predict heart failure (HF) risks
- The performances of the built models were examined using different metrics.
- Our results show that the context aware system could provide useful insight on HF management in smart cities

Abstract:

Heart attack, a complex health problem in which the electrical activity of the heart becomes chaotic due to extreme heart failure conditions, had been proven to be one of the deadliest human diseases ever. Recent studies have reported that remote monitoring of patients with heart failure disease could help quantify their level of risks and provide useful information for efficient therapy. Therefore this study proposed a context aware clinical decision support model based on support vector machine for heart failure risk prediction. The proposed model's performance was evaluated using dataset of potential heart failure patients. And an

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