

ECG Monitoring with SCADA based Defibrillation

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Abstract

Cardiac arrest is the abrupt loss of heart function, breathing and consciousness. This condition usually results from a problem associated with our heart's electrical activity, mainly disrupts the heart's pumping action and stops blood flow to the body. To restore a normal heart beat, an electric pulse/ shock to be delivered to the heart which is done by defibrillator. ECG of the patient is monitored to know the patient's heart condition and ECG waveform is sent to the cloud continuously. If any abnormalities occur, an electric pulse is delivered to the patient through nerve simulator automatically. Through Supervisory control and data acquisition (SCADA) based methodology, the defibrillation can also be applied remotely which eliminates the need of healthcare provider at the patient side. With addition, Heart rate and Temperature also measured parallelly and their magnitudes are sent to the cloud.

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Biography

Biomedical Engineering at Dr.NGP Institute of Technology, Coimbatore. I would like to work in an organization where I can show my skills with the help of my academic knowledge

as well as to enhance my skills and experience as a good team player as well as an individual performer.