

## Abstract

The focus point of this work is the parametric estimation of pacemaker on fuzzy (MATLAB). Pacemaker is a device in which there is human heart interference. It operates specific function. Its per foam specific complex series of action automatically which is programmed by a computer as an autonomous. Pacemaker is the device which is connected to human heart to provide PQRS wave to damaged cells of heart by arrhythmia disease. The pacemaker has pulse generator, battery, and electrodes to provide different no of beats to heart. In simulation we have to consider two inputs and two outputs. First input is frequency of pulse generator and the corresponding output is no of beats. The second input is time duration, and the corresponding output is current. This means that how much no of beats are required to human heart. Similarly, how much duration and amplitude is covered in certain time to obtain no of beats and current. More force we will get effects of no of beats by changing the duration and amplitude the values of pulse generator and vice versa interchangeable parametric values. Then simulated and theoretical values are compared to calculate error. In fuzzy matlab it is noted that if we apply the frequency of 60 Hz with the duration of 112 m sec than we will obtain the no of beats 71(at the range of 60-150) with the current of 13 mA.