

HEALTH MONITORING SYSTEM IN ROBOTIC WHEELCHAIR WITH INTERNET OF THINGS

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The wheelchair with its locomotion capability is readily available nowadays. But, this system comprises of a wheelchair which can be commanded by user in a supervised way. It has locomotion in two different ways namely- voice command and touch screen operation. Also, this wheelchair is characterised with health monitoring mechanism which can be of ultimate use for the aged persons as it is handy as well as easy to operate. Existing wheelchair system utilizes brain impulse changes time to time, which decreases its accuracy of operation as brain impulses keep on changing from patient to patient. We have optimised our system to work at normal human condition in order to observe the changes in the medical parameters of person and diagnose the person's health condition for an effective change in accordance with medical norms. Moreover, as soon as the system detects the critical changes in readings of the system, it automatically sends an SOS message to the physician sitting faraway place, through GSM technology. Also, currently wheelchair has the facility of analysing the data using PDA (personal digital assistant), but to get the medication done in real time, it must have to get prescription in real time to save person in extreme conditions, which the proposed model is implementing extensively.