

TITLE :	Android phone controlled Voice , Gesture and Touch screen operated Smart Wheelchair	YEAR
		2015
KEY CONTRIBUTION		THEORY
an intelligent wheelchair using smart phone is develop to control the rotation of wheel chair based upon voice and gesture movement for the physically challenged persons		In build voice and gesture function are used to control the wheelchair as well as by using smart phone reading SMS,E-mail, News
DEPENDENT VARIABLES		
<ul style="list-style-type: none">voice and gesture operation using smartphone to control the location of wheelchaircontrols the Temperature, Light, Smokes sensors		
INDEPENDENT (AND HYPOTHESES)		
<ul style="list-style-type: none">voice and gesture based electronic powered wheelchair using ARM used combination of speech and gesture recognitionVoice and touch screen based direction and speed control of wheelchairautomatic gesture recognition system based on acceleration sensorA natural hand gesture system for intelligent humancomputer interaction and medical assistance		
METHODS	ANALYSIS	
<ul style="list-style-type: none">Voice recognition through AndroidGesture recognition through AndroidMotor control through signal conditioning	<ul style="list-style-type: none">The system is controlled by AVR microcontroller (ATMega 32)interfaced with Android phones through Bluetooth controller.AVR microcontroller and Bluetooth module are communicating over UART 9600bps	
FINDINGS		
<ul style="list-style-type: none">easy way to navigateaccuracy is increased due to smartphone usage		
FUTURE RECOMMENDATION/GAP	R	The paper is more on report than

<ul style="list-style-type: none">• The efficiency of voice command based wheelchair can be imported by neural based algorithms.• Instead of using gesture recognition, you can use the eye retina using an optical sensor to move the wheelchair in different directions.• Tongue operated assistive technology is possible to access to android phone applications using Bluetooth link.	<p>E M A R K S</p>	<p>experimental . No data is observed.</p>
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