IEEE.org   IEEE *Xplore*   IEEE-SA   IEEE Spectrum   More Sites

Cart   Create Account   Personal Sign In ⇥

Browse ⌄   My Settings ⌄   Help ⌄

Access provided by:
Global Academy Of Technology

Sign Out

Access provided by:
Global Academy Of Technology

Sign Out

All ▾

🔍

ADVANCED SEARCH

< Previous | Back to Results | Next >

Conferences > 2021 9th International Confer... ⍰

Speech Based Biomedical Devices Monitoring Using LabVIEW

Publisher: IEEE

Cite This

📄 PDF

<< Results | < Previous | Next >

R Dilip ;   Yogini Dilip Borole ;   S Sumalatha ;   HM Nethravathi   **All Authors**

Ⓡ ⤴ ©️ 📁 🔔

Alerts

Manage Content Alerts

Add to Citation Alerts

Abstract

Document Sections

I. Introduction

II. Materials and Technology

III. Research Gap

IV. Objective and Methodology

V. Architecture for Patient Monitoring Using Speech Recognition

Show Full Outline ▾

Authors

Figures

📄 Download PDF

Abstract: The primary objective is to develop an interactive real time system with the help of speech recognition system to monitor the medical data in addition to manage sensors c... **View more**

▸ **Metadata**
Abstract:
The primary objective is to develop an interactive real time system with the help of speech recognition system to monitor the medical data in addition to manage sensors connected to human body. In this work, the development of a simple system which is capable of transferring the patient's vital parameters such as temperature, heart rate and electrocardiography (ECG) from the remote location to doctor is done through wireless technology. The sensors interfaced with My RIO embedded controller are connected to the human body, which are monitored and controlled through speech recognition system. Sensors gets activated by the doctor's voice command which is in the pre-defined vocabulary. The information from the sensors should be transferred to doctor with help of controller. Real time data processing is performed utilizing the LabVIEW tool.
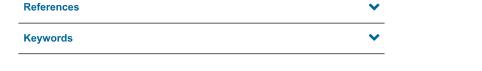

☰ Contents

I. Introduction

Speaking is one mode of communication that is normal. This has been made possible in the security system by recent development. Once the speaker has been identified, the job is to use the Sample discourse to pick the identity of the person speaking from the speaker population. The function of testing speakers is to use a speech sample to check whether a speaker does the job. It allows it possible to use the speaker's voice to verify their identity and to control access to services such as voice service, banking by mobile, access to information, data services, voice mail, guide preventive maintenance, and remote access to computers. In the earlier days, people used to use the analog meters and then make a note of the same in the books and any data if they would like to know had to be informed to the colleagues and they in turn would get back with the required information. This was very time consuming and very tedious working on this technology and the concept, many times the manual errors would always remain the same. With the invention of computers, all these have been changed and automation has become most important in the real world. The research has been continuing for many years in the area of speech recognition. Nevertheless, the method of speech recognition also provides scope for development. The voice reconnaissance method can be described as the process by which an acoustic signal is converted to several words via a microphone or telephone. The first test of the conversion of the speech signal into a text was a direct conversion to a phenomenon sequence, which was not successful. The first promising result was to turn speech into text when general pattern matching techniques were implemented in the 1990s. The positive result was translated into text in the 1990s when General Pattern matching techniques were first adopted. Only a few words could be recognized in that system, but now a day's thousands of words can be recognized at the same time. The technology of speech recognition allowed computers to obey the commands of the human voice and to understand human languages. In this work, one of the objectives is based on to develop a simple device that can transmit the information wirelessly with the help of speech technology of the vital signs of a patient from a remote location to the doctor. The speakers' recognition is used to detect the speaker or check the speaker's identity with the speaker's words as a typical downside of the model classification. Virtual instrumentation offers a replacement style in the analytical field to benefit the devices by designing the code, whereby virtual instrument technology is also applied to the technology of speech recognition and the amount of analysis is reduced.

Sign in to Continue Reading

Authors ⌄

Figures

References ∨

Keywords ∨

IEEE Personal Account	Purchase Details	Profile Information	Need Help?	Follow
CHANGE USERNAME/PASSWORD	PAYMENT OPTIONS	COMMUNICATIONS PREFERENCES	US & CANADA: +1 800 678 4333	
	VIEW PURCHASED DOCUMENTS	PROFESSION AND EDUCATION	WORLDWIDE: +1 732 981 0060	
		TECHNICAL INTERESTS	CONTACT & SUPPORT	

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | IEEE Ethics Reporting ⧉ | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2021 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

IEEE Account	Purchase Details	Profile Information	Need Help?
» Change Username/Password	» Payment Options	» Communications Preferences	» **US & Canada:** +1 800 678 4333
» Update Address	» Order History	» Profession and Education	» **Worldwide:** +1 732 981 0060
	» View Purchased Documents	» Technical Interests	» Contact & Support

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.
© Copyright 2021 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.

Accept & Close