Abstract

In the era of information processing and use of information technology, speech recognition and processing plays a very important role for many human computing tasks. Speech pattern and Speech recognition is fundamental for speech analysis in speech data handling system. No doubt it allows all users to communicate with computers and along with electronic devices using any natural language. Today the potential power of the PCs enables the implementation of the
novel method proposed in this paper. The prime concern is that none of the software is freely available, user friendly and cross platform. Therefore it necessitates using open-source programming language to an Open Ended System for Speech Data Handler using self created Hexapod: a six legged robot. This system facilitates the way any electronic device with an UART port or USB port can be controlled using speech commands.

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- HTK book
- Java Speech Grammar Format (JSGF)

Index Terms

Computer Science
Robotics

Keywords
Speech Pattern
Speech Data Processing
Speech Recognizer
Speech Processing
Hexapod Robot
Sphinx-4
Microcontrollers