Voice enabled mobility system for differently abled persons

A B. Tech Project Report Submitted
in Partial Fulfillment of the Requirements
for the Degree of

Bachelor of Technology

by

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under the guidance of

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to the

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CERTIFICATE

*This is to certify that the work contained in this thesis entitled "**Voice enabled mobility system for differently abled persons**" is a bonafide work of **Atal Bhatia (Roll No. 190101017**), carried out in the Department of Computer Science and Engineering, Indian Institute of Technology Guwahati under my supervision and that it has not been submitted elsewhere for a degree.*

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Acknowledgements

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Chapter 1

Introduction

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1.1 Breif history of speech and voice recgnition

Voice Recognition or speaker recognition refers to the function/ability of a machine to receive and interpret dictation from a human and provide a Natural Language output corresponding to it in real-time.

History of Artificial Voice Assistants:

IBM shoebox(1968) The first ever digital speech recognition software which perceived sixteen words and ten digits.

- Individual entries are indicated with a black dot, a so-called bullet.

- The text in the entries may be of any length.

1.2 Working of speech recognition

2nd Section

1.3 Organization of The Report

You can write the about otganization of your report in the following manner.

This chapter provides a background for the topics covered in this report. We provided a description of wireless ad hoc networks, and their applications. Then we described the network model that represents the topology of wireless ad hoc networks. In this chapter it is shown that the virtual backbone for wireless ad hoc networks can be represented by a connected dominating set. We explained clustering concepts and lastly the difference between centralized and distributed algorithms are also discussed. The rest of the chapters are organised as follows: next chapter we provide review of prior works. In Chapter 3 and 4, we discuss our new algorithms for constructing small backbones for ad-hoc wireless network. And finally in chapter 6, we conclude with some future works.

Chapter 2

Review of Prior Works

Survey comes hear

2.1 Research Paper 1: Enhancing mobility through speech recognition Technology(1985)

2.2 Research Paper 2: An Analysis of the Implementation and Impact of Speech-Recognition Technology in the Healthcare Sector(2004).

2.3 Research Paper 3: Speech recognition for medical documentation: an analysis of time, cost efficiency and acceptance in a clinical setting(2022)

2.4 Research Paper 4: An Efficient Virtual Voice Assitant for Physically Challenged People(2021)

2.5 Research Paper 5: Speech Vision(2021)

2.6 Research Paper 6:Design of electrical wheelchair navigation for disabled patient using convolutional neural networks on Raspberry Pi 3(2020).

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2.7 Conclusion

This chapter provided details of the some of the existing distributed algorithms for constructing a CDS in wireless ad-hoc networks. The results of these evaluations are summarized in table **??**. In next chapter, we discuss our distributed Algorithm I, for constructing

a small backbone in ad-hoc wireless network.

Chapter 3

Algorithm

give details of your algorithm

3.1 Design of the platform

3.2 Working of CMUSphinx

3.3 Work to be done in phase 2

3.4 Conclusion

In this chapter, we proposed a distributed algorithm for construction of xyz. The complexity of this algorithm is $O(n \log n)$. Next chapter presents another distributed algorithm which has linear time complexity based on xyz.

Chapter 4

Conclusion and Future Work

write results of your thesis and future work.

References