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Speech Enhancement using Weiner Filter

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Chapter 1

Introduction

1.1 Task Description

The task of speech enhancement by suppression of acoustic noise has been explored here. The problem of speech enhancement has been heavily researched on owing to its immense importance in plethora of audio processing tasks like speech recognition and compression, restoration of analog audio recordings, etc. In particular, the following work focuses on enhancement of speech recordings and the transfer of the techniques from speech to music domain sure exists but is not trivial. This transfer has not been explictly discussed in this paper but analysis of audio supression in music signals is an important and interesting research in it's own right.

If we assume that

Chapter 2

Two Stream RNN CNN based Encoder

- 2.1 Architecture
- 2.2 Input Data
- 2.3 Pre-Training
- 2.4 Results