

**A Practical Multistream Framework for Noise Robust
Speech Recognition**

by

Sri Harish Mallidi

A dissertation submitted to The Johns Hopkins University in conformity with
the requirements for the degree of Doctor of Philosophy.

Baltimore, Maryland

Month, YEAR

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Abstract

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original

ABSTRACT

language. There is no need for special content, but the length of words should match the language.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Primary Reader and Advisor: Your Advisor

Secondary Reader: Someone Else

Acknowledgments

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Dedication

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Contents

Abstract	ii
Acknowledgments	iv
List of Tables	viii
List of Figures	ix
1 Introduction	1
1.1 Spacing & Type	1
1.1.1 Creating a Subsection	2
1.1.1.1 Creating a Subsubsection	2
1.2 Theorems, Corollaries, Lemmas, Proofs, Remarks, Definitions and Examples	3
1.3 Optional table of contents heading	4
2 Methodology	6

CONTENTS

2.1 Another Section	7
A Extra Stuff	8
B Even More Extra Stuff	9
Bibliography	10
Vita	11

List of Tables

1.1	This is the title I want to appear in the List of Tables	2
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List of Figures

Chapter 1

Introduction

1.1 Spacing & Type

This is a section. This is a citation without brackets 1. and this is one with brackets [1]. These are multiple citations: [1–3]. Here’s a reference to a subsection: 1.1.1. The body of the text and abstract must be double-spaced except for footnotes or long quotations. Fonts such as Times Roman, Bookman, New Century Schoolbook, Garamond, Palatine, and Courier are acceptable and commonly found on most computers. The same type must be used throughout the body of the text. The font size must be 10 point or larger and footnotes¹ must be two sizes smaller than the text² but no smaller than eight points. Chapter, section, or other headings should be of a consistent font and size throughout

¹This is a footnote.

²This is another footnote.

the ETD, as should labels for illustrations, charts, and figures.

1.1.1 Creating a Subsection

1.1.1.1 Creating a Subsubsection

1.1.1.1.1 THIS IS A HEADING LEVEL BELOW SUBSUBSECTION

And this is a quote:

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is a table:

Table 1.1: This is a caption.

A	B
a1	b1
a2	b2
a3	b3
a4	b4

The package “upgreek” allows us to use non-italicized lower-case greek let-

ters. See for yourself: β , β , β , β . Next is a numbered equation:

$$\|X\|_{2,1} = \underbrace{\sum_{j=1}^n f_j(X)}_{\text{convex}} = \sum_{j=1}^n \|X_{:,j}\|_2 \quad (1.1)$$

The reference to equation (1.1) is clickable.

1.2 Theorems, Corollaries, Lemmas, Proofs, Remarks, Definitions, and Examples

Theorem 1. *Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.*

Proof. I’m a (very short) proof. □

Lemma 1. *I'm a lemma.*

Corollary 1. *I include a reference to Thm. 1.*

Proposition 1. *I'm a proposition.*

Remark. I'm a remark.

[illegible]

Example. I'm an example.

1.3 Section with linebreaks in the name

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and

CHAPTER 1. OPTIONAL RUNNING CHAPTER HEADING

some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Chapter 2

Methodology

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information.

CHAPTER 2. SECOND CHAPTER HEADING

Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

2.1 Another Section

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Appendix A

Extra Stuff

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Appendix B

Even More Extra Stuff

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Bibliography

- [1] A. A. Aardvark, “Article title,” *Journal One*, vol. 1, no. 1, pp. 1–8, 1900.
- [2] A. A. Abramson and B. B. Barbie, “Article title,” *Journal Two*, vol. 1, no. 1, pp. 9–17, 1900.
- [3] A. A. Abramson, B. B. Barbie, and C. C. Rider, “Article title,” *Journal Three*, vol. 1, no. 1, pp. 192–244, 1900.

Vita

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