

FluentSpeech: Stutter-Oriented Automatic Speech Editing with Context-Aware Diffusion Models

Ziyue Jiang*
Zhejiang University
ziyuejiang@zju.edu.cn

Qian Yang*
Zhejiang University
qyang1021@zju.edu.cn

Jialong Zuo
Zhejiang University
jialongzuo@gmail.com

Zhenhui Ye
Zhejiang University
zhenhuiye@zju.edu.cn

Rongjie Huang
Zhejiang University
rongjiehuang@zju.edu.cn

Yi Ren
Bytedance AI Lab
ren.yi@bytedance.com

Zhou Zhao[†]
Zhejiang University
zhaozhou@zju.edu.cn

Abstract

Stutter removal is an essential scenario in the field of speech editing. However, when the speech recording contains stutters, the existing text-based speech editing approaches still suffer from: 1) the over-smoothing problem in the edited speech; 2) lack of robustness due to the noise introduced by stutter; 3) to remove the stutters, users are required to determine the edited region manually. To tackle the challenges in stutter removal, we propose FluentSpeech, a stutter-oriented automatic speech editing model. Specifically, 1) we propose a context-aware diffusion model that iteratively refines the modified mel-spectrogram with the guidance of context features; 2) we introduce a stutter predictor module to inject the stutter information into the hidden sequence; 3) we also propose a stutter-oriented automatic speech editing (SASE) dataset that contains spontaneous speech recordings with time-aligned stutter labels to train the automatic stutter localization model. Experimental results on VCTK and LibriTTS datasets demonstrate that our model achieves state-of-the-art performance on speech editing. Further experiments on our SASE dataset show that FluentSpeech can effectively improve the fluency of stuttering speech in terms of objective and subjective metrics. Code and audio samples can be found at <https://github.com/Zain-Jiang/Speech-Editing-Toolkit>.

1 Introduction

Recently, text-based speech editing (Jin et al., 2017, 2018; Morrison et al., 2021; Tan et al., 2021; Tae et al., 2021; Wang et al., 2022; Bai et al., 2022) has made rapid progress, and stutter removal is

a critical sub-task in speech editing. There are various application scenarios for stutter removal, like short-form videos, movies, podcasts, YouTube videos, and online lectures, since it provides great convenience for media producers.

Previous speech editing systems (Jin et al., 2017, 2018) successfully enable the user to edit the speech recording through operations in the text transcript. Some neural text-to-speech (TTS) based methods (Tan et al., 2021; Tae et al., 2021) achieve smooth transition at the boundaries of the edited region. And most recently, the mask prediction based methods (Wang et al., 2022; Bai et al., 2022) learn better contextual information from the input mel-spectrogram and outperform previous approaches at speech quality and prosody modeling. However, the existing approaches only aim at modifying reading-style speeches, while removing stutters from spontaneous speeches remains a considerable challenge.

When applied to the stutter removal task, previous efforts are still subject to the following limitations: 1) the generated mel-spectrogram is usually blurry and lacks frequency bin-wise details, resulting in unnatural sounds in the boundaries of the modified region; 2) when the speech recording is full of stutters, the edited speech is usually not robust due to the noise introduced by the discrepancy between text and stuttering speech content; 3) the stutter region should be manually determined one by one, which is costly and laborious for media producers.

To tackle these challenges, we propose FluentSpeech, the first generative model to solve the stutter removal task, which automatically detects the stutter regions, removes them, and generates fluent speech with natural details. Specifically,

* Equal contribution.

[†] Corresponding author.

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Table of Contents Stutter Control Drill Mastering Elements Of Fluent Speech Paperback

1. Understanding the eBook Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - The Rise of Digital Reading Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Advantages of eBooks Over Traditional Books
2. Identifying Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - User-Friendly Interface
4. Exploring eBook Recommendations from Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Personalized Recommendations
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback User Reviews and Ratings
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback and Bestseller Lists
5. Accessing Stutter Control Drill Mastering Elements Of Fluent Speech Paperback Free and Paid eBooks
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback Public Domain eBooks
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback eBook Subscription Services
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback Budget-Friendly Options
6. Navigating Stutter Control Drill Mastering Elements Of Fluent Speech Paperback eBook Formats

- ePub, PDF, MOBI, and More
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback Compatibility with Devices
 - Stutter Control Drill Mastering Elements Of Fluent Speech Paperback Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Highlighting and Note-Taking Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Interactive Elements Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 8. Staying Engaged with Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 9. Balancing eBooks and Physical Books Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Setting Reading Goals Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Fact-Checking eBook Content of Stutter Control Drill Mastering Elements Of Fluent Speech Paperback
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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