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AUTOMATIC VOICE QUALITY ENHANCEMENT WHILE PEOPLE WEARING FACMASK DURING A CALL

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Automatic voice quality enhancement while people wearing a facemask during a call

Abstract

- Background
- Block diagram
- Speech frequency response comparison

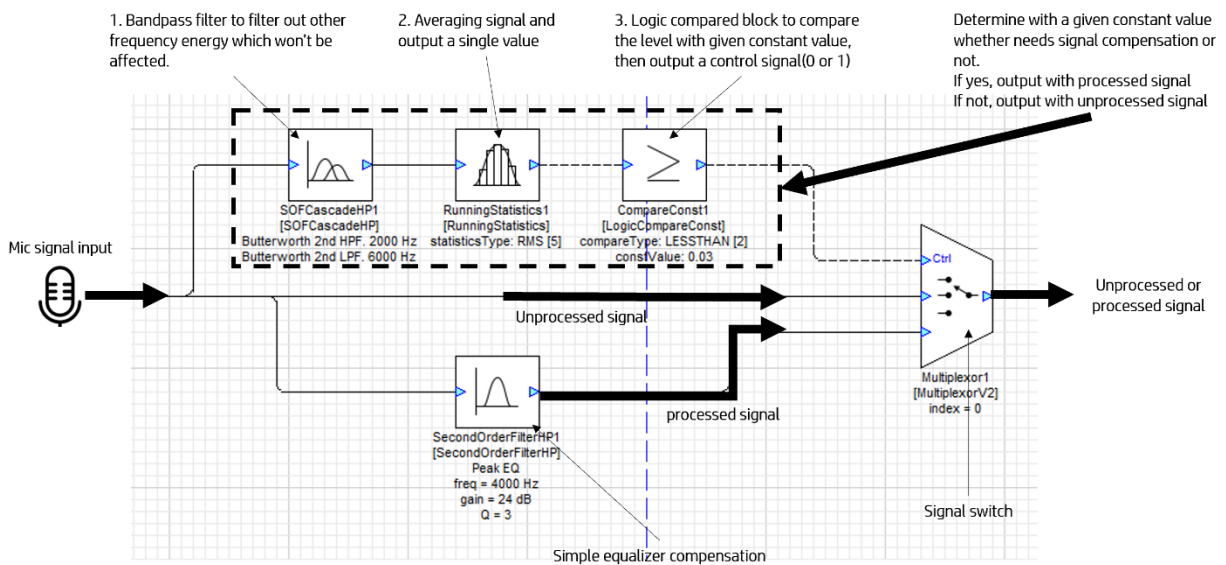
Background

- In the post pandemic when more and more people getting back to office, it would be still recommended to wear facemask when meet in person face to face or join a meeting together in an enclosed meeting room. When people wearing facemask to join a meeting, most of the case it would be difficult for remote participants to understand very well what people is talking if there is no special deal in the device used for the call, especially a conferencing device. The idea is to disclose a method to compensate voice quality automatically while wearing facemask by using Audio Weaver design tool.



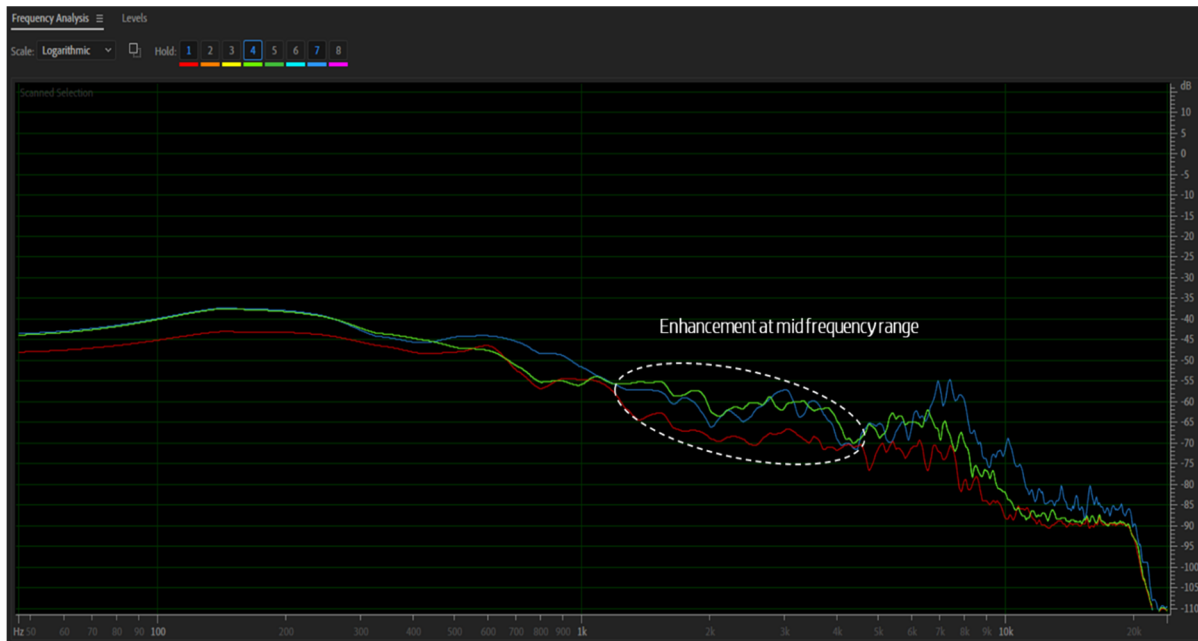
Block diagram

- Automatic compensate the voice quality degradation while wearing facemask by identifying the pre-defined loss frequency domain of most people. Take single microphone as an example:



Speech frequency response comparison

- Blue: without wearing a facemask
- Red: wearing a facemask
- Green: wearing a facemask but enable this feature



Disclosed by Michael Wang, Stanley Wang, Yi-Ying Lai and Raven Chen, HP Inc.