

(54) Title of the invention : SYSTEM FOR SPEECH SIGNAL ANALYSIS AND SYNTHESIS USING NORMALIZED MEL FREQUENCY CEPSTRAL COEFFICIENTS

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(57) Abstract :

ABSTRACT: Title: System for Speech Signal Analysis and Synthesis using Normalized Mel Frequency Cepstral Coefficients The proposed disclosure presents a system for speech signal analysis and synthesis 100 which comprises of an analysis module 101 and a synthesis module 102. The analysis module 101 comprises of, a pre-emphasis module 103, a framing module 104, a windowing module 105, a gain calculation module 106, a normalized MFCC calculation module 107, and an analysis filter module 108. The analysis module 101 is configured to analyze an input speech signal and obtain a residue signal. The synthesis module 102 is configured to synthesis the speech signal by passing the analyzed speech signal in frame wise through a filter and obtains a reconstructed speech signal. The proposed system for speech signal analysis and synthesis 100 uses normalized MFCC values with less than unity that ensures filter stability.

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