REVIEWER'S REPORT

Manuscript No.: IJAR-50441   Date: 01-03-2025

Title: VOCAL CHAMELEON

Recommendation:
Accept as it is………………**YES………….**
Accept after minor revision………………
Accept after major revision ………………
Do not accept (*Reasons below*) ………

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Mr Bilal Mir

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)
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Reviewer's Comment / Report

Abstract Review: The abstract effectively outlines the core objectives of the study, emphasizing the innovation in karaoke vocal processing. The research scope is clearly defined, mentioning key audio processing techniques such as equalization, pitch correction, and reverb. The abstract also successfully highlights the practical applications of the study, underlining its significance in music production and user engagement. The technical terms used are relevant, ensuring clarity for readers familiar with digital audio processing.

Introduction Review: The introduction provides a comprehensive background on digital signal processing (DSP) and its relevance to audio enhancement. It effectively justifies the use of MATLAB as the primary tool for processing vocal files and blending them with karaoke tracks. The discussion on the applications of audio processing, such as speech recognition and telecommunication, broadens the study's relevance. The transition from general DSP applications to the specific focus on karaoke vocal processing is well-structured, making the research purpose clear. The methodological overview in the introduction provides insight into the techniques utilized, setting a solid foundation for the study.

Literature Survey Review: The literature survey offers a well-structured examination of past research in digital audio processing. Key contributions from established scholars are included, ensuring a strong theoretical framework for the study. The references to foundational DSP techniques, wavelet transform

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applications, and pitch detection algorithms provide valuable context. The inclusion of historical developments and real-time processing challenges enriches the review, demonstrating a comprehensive understanding of prior work. The discussion effectively links previous research to the current study's objectives, validating the chosen methodologies.

Methodology Review: The methodology is systematically presented, detailing each step in the audio processing workflow. The explanation of normalization, equalization, pitch correction, reverb, and chorus effects is clear and logically ordered. The description of time alignment and volume balancing ensures a structured approach to merging vocals with karaoke tracks. The block diagram reference provides a visual representation of the process, enhancing understanding. The methodology is technical and precise, making it accessible to researchers and practitioners in the field of audio signal processing.

Conclusion: The study presents a well-articulated approach to enhancing karaoke experiences through advanced DSP techniques. The structured format, technical depth, and relevant references strengthen its contribution to the field. The paper successfully aligns theoretical foundations with practical implementations, offering valuable insights into vocal enhancement technologies.