

Jacoti at VCCA2024: The Impact of Ambient Noise on Home-Based Remote Audiometry

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Computational Audiology
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Study Highlights Presented at VCCA2024

We are pleased to announce that our team recently presented a study titled **The Impact of Ambient Noise on the Reliability of Home-Based Remote Audiometry** at the 2024 Virtual Conference on Computational Audiology (VCCA2024). This study investigates how ambient noise influences audiometric results using the **Jacoti Hearing Center** application for remote and automated hearing assessments.

Key Findings

- **Test-Retest Reliability:** The study found that test-retest reliability was within 5 dB for thresholds ranging between 20 and 75 dB HL, demonstrating consistent results even in the presence of ambient noise.
- **Minimal impact of Ambient Noise:** The study showed no clinically significant effects of ambient noise on audiometric results, underscoring the robustness of the Jacoti Hearing Center application in non-ideal acoustic environments.

Implications and Advantages

Our findings highlight the significant potential of home-based audiometric testing with the Jacoti Hearing Center application:

- **Continuous Noise Monitoring:** The application continuously monitors ambient noise levels to ensure accurate testing conditions.
- **Noise-Aware Control:** The procedure adjusts based on ambient noise, maintaining the reliability of the results.
- **Reliability in Non-Ideal Conditions:** The study supports the reliability of remote audiometry even in environments with varying levels of background noise.

About the VCCA2024 Conference

The 2024 VCCA conference focused on two main themes: AI and hearing, and the changing landscape of Audiology. Key areas of exploration included the application of computational approaches to audiological interventions and hearing science, AI in audiology and hearing healthcare, auditory neuroscience, and acoustics to facilitate hearing. The conference aimed to enhance hearing healthcare, improve the efficacy of audiological interventions, and reduce the global burden of hearing loss through computational approaches.

We are excited to share these findings and look forward to further discussions on the potential of home-based audiometric testing. For more details, visit the event page [here](#).

About Jacoti

Jacoti BV | Hearing Technologies is a science-based company that develops hearing enhancement solutions embeddable in consumer devices. Its flagship product, Jacoti Inside, optimizes audio to each individual hearing requirement from consumer technologies to fully-fledged medical devices. For more information visit www.jacoti.com

Contact our Press Officer for more information or to arrange an interview with our team.
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