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Reducing Audio Stimulus Presentation Latencies Across

Consistent audio timing is not found in consumer sound cards. This introduces

variability between machines, and delays sound delivery time. Chronos features an onboard sound card which eliminates these issues and delivers millisecond accuracy. More research on reducing audio stimulus presentation latencies.

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Fourth, the presentation of browser-based audio is generally more complicated than the presentation of visual stimuli. For example, no single audio format is supported by all current popular PC browsers, and until the recent development of the HTML5 standards, the optimal methods for playing audio varied by browser (for an introduction to earlier methods for presenting audio, see Huckvale, 2011).

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EEG- event related potentials - McGill University

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Interaction of auditory and pain pathways: Effects of ...

Clearly, response latency depends on stimulus polarity for this 250-Hz toneburst. Well-formed responses were observed for both stimulus phases, although the responses were not identical. Notably, wave V latencies were systematically longer for stimuli presented at 0 degrees.

Finally, adding the responses for stimuli of opposite phase sometimes

Effects of Stimulus Phase on the Latency of the Auditory ...

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Rate, Frequency, and Intensity Effects on Early Auditory ...

To test the extent of correlation in latencies across the population, cross-correlation coefficients were computed for the latencies of every pair of neurons recorded with the same stimulus set (Fig. 1 D and E). Although many neurons have correlated first-spike latency functions, a number of neurons have uncorrelated or even anticorrelated responses.

First-spike latency information in single neurons ...

Morita et al.'s (2006) data is consistent with these studies, showing reducing N1m latencies for tones in quiet from 40 to 50 dB SPL and no change in latency with further increases in stimulus intensity. For soft presentation levels CAEP amplitudes increased more for /m/ than for /t/. The /m/ stimulus resulted in less variation in latencies across levels, and substantial decrease in amplitudes at near threshold levels. The /t/ stimulus produced CAEPs with similar latencies across level and ...

Stimulus level effects on speech-evoked obligatory ...

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Another interpretation might propose that the sound acts as a distractor that partially disengages the attention allocated to the fixation point, thereby reducing latencies with mechanisms similar ...

(PDF) Effects of warning signals and fixation point ...

By reducing buffer sizes, latency can be reduced. A popular optimization solution is Steinberg's ASIO, which bypasses the audio platform and connects audio signals directly to the sound card's hardware. Many professional and semi-professional audio applications utilize the ASIO driver, allowing users to work with audio in real time.

Latency (audio) - Wikipedia

An evoked potential or evoked response is an electrical potential in a specific pattern recorded from a specific part of the nervous system, especially the brain, of a human or other animals following presentation of a stimulus such as a light flash or a pure tone. Different types of potentials result from stimuli of different modalities and types. EP is distinct from spontaneous potentials as ...

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