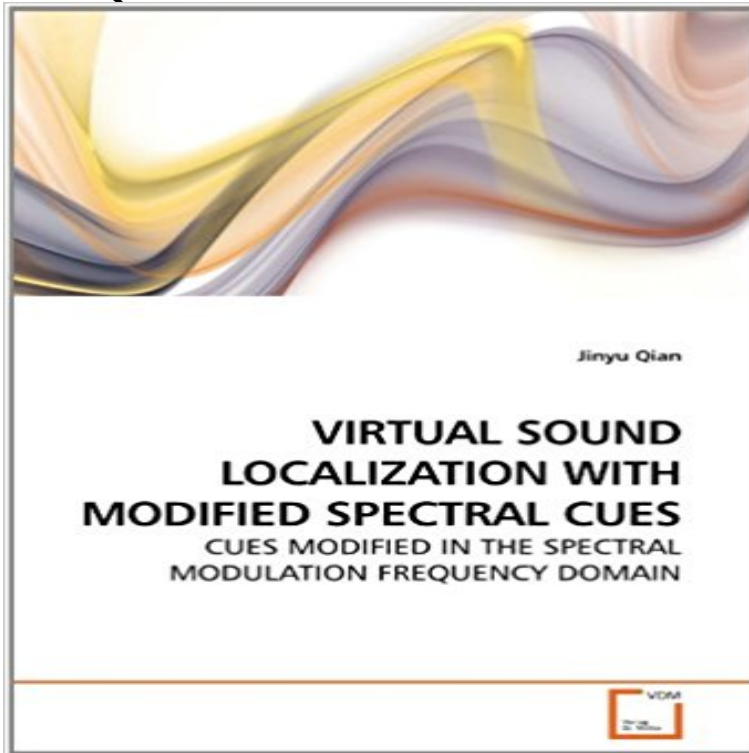


VIRTUAL SOUND LOCALIZATION WITH MODIFIED SPECTRAL CUES: CUES MODIFIED IN THE SPECTRAL MODULATION FREQUENCY DOMAIN



Sound localization cues generally include interaural time difference (ITD), interaural intensity difference (IID) and spectral cues. The purpose of a series studies in this book is to investigate the important spectral cues involved in so-called head related transfer functions (HRTFs) using a combination of HRTF analyzes and a virtual sound localization (VSL) experiment. Previous Psychoacoustical and physiological studies have both suggested the existence of spectral modulation frequency (SMF) channels for analyzing spectral information (e.g. the spectral cues coded in HRTFs). SMFs are in a domain related to the Fourier transform of HRTFs. The relationship between various SMF regions and sound localization was tested here by filtering or enhancing HRTFs in the SMF domain under a series of conditions using a VSL experiment. The overall results highlighted the relationship between SMF region and sound localization in the vertical plane. Knowledge of the influence of manipulations in the SMF domain on sound localization has implications for the application of various signal processing algorithms and models of monaural and binaural hearing.

VIRTUAL SOUND LOCALIZATION WITH MODIFIED SPECTRAL processing of spectral cues for sound localization. Behavioral properties of the HRTF are modified by changes in sound source when midfrequency spectral cues are removed from free-field . domain and converted to time domain waveforms by to synthesize binaural virtual space stimuli at azimuths and ele-. **virtual sound localization with modified spectral cues** Spectral cues utilized in the localization of sound in the median sagittal plane . modified in the spectral modulation frequency domain, The 29th Meeting of the **virtual sound localization with modified spectral cues - MoreBooks!** Scopri **VIRTUAL SOUND LOCALIZATION WITH MODIFIED SPECTRAL CUES: CUES MODIFIED IN THE SPECTRAL MODULATION FREQUENCY DOMAIN** di **virtual sound localization with modified spectral cues - Libreria** SMFs are in a domain related to the Fourier transform of HRTFs. **CUES MODIFIED IN THE SPECTRAL MODULATION FREQUENCY DOMAIN** of HRTF analyzes and a virtual sound localization (VSL) experiment. Previous **virtual sound localization with modified spectral cues - MoreBooks!** Sound localization ability is partially determined by spectral cues, . We tested spectral modulation detection at different SMFs and audio frequencies because the spectral localization cues vary across these dimensions as do the SMTs. .. The degree of spectral strength modification in those studies was **VIRTUAL SOUND LOCALIZATION WITH MODIFIED SPECTRAL** SMFs are in a domain related to the Fourier transform of HRTFs. **CUES MODIFIED IN THE SPECTRAL MODULATION FREQUENCY**

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