



## HIGH-RESOLUTION PARAMETRIC MODELING OF STRING INSTRUMENT SOUNDS (ThuPmOR5)

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★ Abstract :

Parametric modeling of musical instrument sounds is useful because it makes possible to represent signals in a compact form, to resynthesize them in a modified or morphed way, or to apply the parameters in physical and perceptual studies of acoustic instruments. In this paper we propose high-resolution pole-zero modeling techniques that are applicable to parametric representation of string instrument sounds, assuming approximately linear and time-invariant behavior of the instrument. An example of applying the techniques to the acoustic guitar sound is presented.