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Timbre Transfer For A Smart Acoustic Guitar

How are acoustic guitars perceived in relation to one another? We conducted a guitar timbre listening test which revealed a dependence of a steel-string acoustic guitar’s timbral profile on the playing style.

What kinds of model architectures would be best suited for guitar-to-guitar timbre transfer?

Table 1: Spearman correlations for MDS dimensions of each playing style with the pruned timbre descriptors (representation noted in parentheses; significant correlations in bold: * $p < .05$, ** $p < .01$, *** $p < .001$).

Playing style	Picking				Strumming				Fingerstyle			
Dimension	1	2	3	4	1	2	3	4	1	2	3	4