

Abstract

The present study investigates the influence of stimulus spacing on modality differences in duration classification. The timing performance of our participants was studied by the duration-bisection task. Two experiments, in which different types of stimulus spacing were combined with the auditory or visual modality, have found that modality differences vary with changes in stimulus spacing in a systematic fashion. Basically, the alteration in modality effects resulted from the shifting of the auditory psychometric functions. Despite incomplete explanations offered by previous models of temporal bisection, a recently developed model by Brown, McCormack, Smith and Stewart (2004) captures the bisection point shifts in response to changes in stimulus spacing for both modalities.