

Dimensional complexity of posturographic signals: I. Optimization of frequency sampling and recording time

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To properly estimate of dimensional complexity (DC) from a time series some requirements should be met concerning signal registration. Moreover, some parameters necessary for reliable reconstruction of chaotic character should be assessed. In this paper, we calculate registration parameters, i.e. minimal sampling frequency and minimal registration time, for posturographic signal. To this aim we used posturographic signals from 32 young healthy participants. According to our results, posturographic time series should at least be 60 s long and be sampled at least every 10 ms.