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The relationship between coherence and the phase-locking value. (English) Zbl 1394.92025
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Summary: From the text: In neuroscience, two popular methods of assessing oscillatory synchrony between two recordings are the phase-locking value and the coherence. Here we note that both of these statistics are a weighted average with each statistic associated with different weightings, providing a conceptual framework for comparing results using the two measures.

MSC:

92C20 Neural biology

62P10 Applications of statistics to biology and medical sciences; meta analysis

Cited in 1 Document

Keywords:

phase-locking value; amplitude weighting

Software:

Chronux; sapa

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