COGNITIVE NEUROPHYSIOLOGIC SYNCHRONIES: What Can They Contribute to the Study of Teamwork?

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Cognitive Neurophysiologic synchronies (NS) are data streams derived from EEG measurements that can be collected and analyzed rapidly and in realistic settings. This study relates the expression of NS for Engagement to task changes and the frequency of conversation between team members during Submarine Piloting and Navigation (SPAN) simulations. The results indicate NS expression may complement rather than duplicate communication metrics as measures of team cognition.

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