

What is the role of physiological activation in shaping temporal representations?

Tuesday, September 24, 2024 9:20 AM (20 minutes)

Temporal representations are fundamental for delving into our daily lives, yet they are susceptible to distortion from various factors, including emotional experiences. This distortion is often attributed to physiological activation, where heightened arousal can accelerate our internal clock, leading to an over-estimation of time. Despite the abundance of studies delving into the association between physiological arousal and time perception, the findings remain fragmented and inconclusive.

Here we would like to explore the relationship between physiological activation and temporal processing. Our study immersed participants in emotional situations, and recorded the fluctuations of their physiological responses as they navigated into timing tasks. Analyzing Heart Rate Variability and Skin Conductance Response, we sought to decode how arousal is intertwined with perception of time.

Our participants watched three emotional videos and performed three temporal tasks. Their physiological response (SCR and HR) was recorded during the task. The Data Analysis involved participants' physiological reactions to the emotional stimuli compared to a resting baseline.

The results showed that negative stimuli were associated with greater physiological response, as well as to a greater dilation of temporal performance when temporal task were presented during the emotional immersion.

Our findings show the impact of emotions and physiological responses on temporal distortions. With these insights, we seek to deepen our understanding of how emotional experiences mold time perception. By elucidating the intricate interplay between physiological arousal and temporal representations, we aim to inspire future research aimed at unraveling the complexities of human time perception.

If you're submitting a poster, would you be interested in giving a blitz talk?

No

If you're submitting a symposium talk, what's the symposium title?

Simposio di Riferimento: Time Perception: From sensation to memory

If you're submitting a symposium, or a talk that is part of a symposium, is this a junior symposium?

Yes

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Session Classification: Symposia