

Spatial and temporal aspects of visual binding

University of Birmingham - Binding problem

PROBLEMS of CNS

I. The binding problem

- Binding: widely distributed neural areas correlated with features of representation of object (color, size, motion, orientation) – perceptual image of object
- Forms of binding: spatial or temporal, conscious or unconscious, visual, auditory, cognitive, cross-modal binding, sensory-motor binding, memory binding
- Binding – “almost everywhere in the brain and in all processing levels”. (Velik 2010)

Description: -

- Spatial and temporal aspects of visual binding
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Notes: Thesis (Ph.D) - University of Birmingham, School of

Psychology, Faculty of Science, 1998.

This edition was published in 1997



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Tags: #Intersensory #binding #across #space #and #time: #a #tutorial #review

Memory for spatio

The attentional blink AB occurs when a second target T2 embedded in a rapid serial visual presentation is missed when following a first target T1 within a time interval between 200 and 500 ms.

Modeling spatial and temporal aspects of visual backward masking

Multiple sites of causal convergence are invoked in specific biophysical terms by Edwards and Sevush.

Modeling spatial and temporal aspects of visual backward masking

Black circles and solid fitting curve, V col— A condition; white squares and dotted fitting curve, A— T condition. However, out-of-phase stimulation did not impair performance, as it would have been expected if the putative oscillatory correlate was causally involved in contour integration.

Modeling spatial and temporal aspects of visual backward masking

In contrast, when an event is only a salient event within that processing channel, the event timing can be detected nearly automatically through bottom-up processing Soto-Faraco et al.

Modeling spatial and temporal aspects of visual backward masking

Most philosophers have difficulty with this position see Bayne. Indeed, the main feature of our RW mobile-protocol was that it enabled us to generate events over long temporal windows up to 3 weeks, vs. Finally, brain stimulation research reliability may also benefit from study pre-registration and direct replications of published results, in line with recent attempts to improve research quality in several fields of psychology and neuroscience.

A common perceptual temporal limit of binding synchronous inputs across different sensory attributes and modalities

Still, the significant correlation between tACS-induced IAF changes and perceived jitter frequency strongly supports a causal role of alpha activity in modulating the temporal aspects of visual perception.

Spatial and temporal coherence in perceptual binding

In this task, intrusion errors occur when a distractor feature appearing at one point in time, is reported as belonging to the target, appearing at a different time. Even if other studies succeeded in showing modulation of temporal aspects of perception with alpha tACS ; ; , the study by Ronconi et al.

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