
Mechanisms Of Visual Attention A Cognitive Neuroscience Perspective A Special Issue Of Visual Cognition

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[Mechanisms Of Visual Attention A](#)

Article type: Overview Visual Attention

A typical visual scene we encounter in everyday life is complex and filled with a huge amount of perceptual information The term, “visual attention” describes a set of mechanisms that limit some processing to a subset of incoming stimuli Attentional mechanisms shape what we ...

Visual Attention Mechanisms Show a Center-Surround ...

VISUAL ATTENTION MECHANISMS 1861 were compared An attention index which reflected the change in perception produced by the attentional cue was calculated The attention index has the advantages of being able to measure both: (1) the direction of the induced motion; and (2) the strength of the percept of line motion

Neural Mechanisms of Selective Visual Attention

standard view of attention, in which attention functions as a mental spotlight enhancing the processing (and perhaps binding together the features)

of the illuminated item Instead the model we develop is that attention is an emergent property of many neural mechanisms working to resolve competition for visual processing and control of behavior

AttentionRNN: A Structured Spatial Attention Mechanism

Visual Attention Visual attention mechanisms have been widely adopted in the computer vision community owing to their ability to focus on important regions in an image Even though there is a large variety of methods that deploy visual attention, they can be ...

Human cortical mechanisms of visual attention during ...

Human cortical mechanisms of visual attention during orienting and search Maurizio Corbetta^{1,2,3*} and Gordon L Shulman¹ Departments of Neurology¹, Radiology², Anatomy and Neurobiology³, McDonnell

Fischer (1987) Mechanisms of visual attention revealed by ...

MECHANISMS OF VISUAL ATTENTION REVEALED BY SACCADIC EYE MOVEMENTS B FISCHER* and B BREITMEYER Department of Clinical Neurology and Neurophysiology, University of Freiburg, FRCi Abstract--This paper summarizes recent data on the initiation of saccadic eye movement in relation to the mechanisms of visual attention

COMPUTATIONAL MODELLING OF VISUAL ATTENTION

Box 1 | Neuronal mechanisms for the control of attention The brain regions that participate in the deployment of visual attention include most of the early visual processing area A simplified overview of the main brain areas involved is shown in the figure Visual information enters the primary visual

An Empirical Study of Spatial Attention Mechanisms in Deep ...

of different attention factors and mechanisms, we present an empirical study of spatial attention, in which various elements of attention mechanisms are ablated within a generalized attention formulation This investigation is conducted on a variety of applications, namely neural machine translation, semantic segmentation, and object detection

Recurrent Models of Visual Attention

Recurrent Models of Visual Attention Volodymyr Mnih Nicolas Heess Alex Graves Koray Kavukcuoglu Google DeepMind fvmnih,heess,gravesa,koraykg @ google.com Abstract Applying convolutional neural networks to large images is computationally expensive because the amount of computation scales linearly with the number of image pixels

Learning Attentions: Residual Attentional Siamese Network ...

for High Performance Online Visual Tracking of attention mechanisms into the tracking model learning to produce more adaptive discriminative learning In particular, a new end-to-end deep architecture, named Residual Attentional Siamese Network (RASNet), is de-

Neural Mechanisms of Object-Based Attention Daniel Baldauf ...

Neural Mechanisms of Object-Based Attention This copy is for your personal, non-commercial use only colleagues, clients, or customers by clicking here If you wish to distribute this article to others, you can order high-quality copies for your € following the guidelines here

A saliency-based search mechanism for overt and covert ...

Most models of visual search, whether involving overt eye movements or covert shifts of attention, are based on the concept of a saliency map, that is, an explicit two-dimensional map that encodes the saliency or conspicuity of objects in the visual

Parietal Lobe Mechanisms for Directed Visual Attention

PARIETAL LOBE MECHANISMS IN VISUAL ATTENTION 363 the focus of attention from one to another The properties of this ensemble of par&al

lobe neu-

Reflexive and Voluntary Orienting of Visual Attention ...

a model for spatial attention with distinct but interacting reflexive and voluntary orienting mechanisms In daily life persons move their eyes so as to foveate parts of the visual field to which they wish to attend However, it is well established that even without making eye movements,

Effective Approaches to Attention-based Neural Machine ...

Effective Approaches to Attention-based Neural Machine Translation Minh-Thang Luong Hieu Pham Christopher D Manning Computer Science Department, Stanford University, Stanford, CA 94305 {lmthang,hyhieu,manning}@stanford.edu Abstract An attentional mechanism has lately been used to improve neural machine translation (NMT) by selectively focusing on

Visual Attention-Driven Hyperspectral Image Classification

literature in order to adapt visual attention methods to remotely sensed HSI data analysis In this paper, we introduce a new visual attention-driven technique for the HSI classification Specifically, we incorporate attention mechanisms to a ResNet in order to better characterize the spectral-spatial information contained in the data

The neural mechanisms of top-down attentional control

Spatial attention, the selective direction of visual attention toward a location, can occur covertly, without overt movements of the head or eyes Theoretically, mechanisms of covert, voluntary spatial attention can be decomposed into elementary mental operations: disengaging attention from the current focus, orienting attention to a

Review Attention: The mechanisms of consciousness

mechanisms remain to be clarified Are the thalamic-visual cortex interactions we have been describing "consciousness" as suggested by Crick? One definition of consciousness involves awareness of the outside world, and the interactions of thalamic areas with the visual cortex are certainly important for achieving focal awareness By focal