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'Eye movements during reading some current controversies

September 5th, 2019 - One sustained and prevalent controversy has been whether eye movements during reading are controlled by low level oculomotor i e mechanical strategies or whether they are influenced by moment to moment cognitive processes A second controversy deals with the types of information extracted from parafoveal vision in reading'

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'Williams syndrome and its cognitive profile the

January 9th, 2017 - People with Williams syndrome WS a rare neurodevelopmental disorder that is caused by a deletion on the long arm of chromosome 7 often show an uneven cognitive profile with participants performing better on language and face recognition tasks in contrast to visuospatial and number tasks'

'Eye movements Scholarpedia

December 15th, 2019 - Basic characteristics of eye movements in visual cognition Although we have the impression that we can process the entire visual field in a single fixation in reality we would be unable to fully process the information outside of foveal vision if we were unable to move our eyes Rayner 1978 1998"**Mapping Eye Movements to Cognitive Processes**

November 23rd, 2019 - The connection between eye movements and thoughts has enjoyed burgeoning attention in recent years in a number of major research areas In psychology and the cognitive sciences researchers have studied eye movements to help elicit and analyze the cognitive processes in a variety of task domains'

'Tracking the eyes to obtain insight into insight problem

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May 4th, 2011 - Eye guidance in picture viewing is often assessed by comparing image statistics at fixated and control locations extracting image properties over a small window The role of visual and cognitive processes in the control of eye movement In Kowler E editor'

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December 17th, 2019 - Distinct eye movements for different cognitive processes as expressed in the face recognition task Ohad Parag and Eli Vakil Department of Psychology and Leslie and Susan Gonda Goldschmied Multidisciplinary Brain Research Center Bar Ilan University'

'Peripheral Guidance in Scenes The Interaction of Scene

December 15th, 2019 - Keywords gaze guidance object content scene context visual search Every person performs hundreds of searches every day whether to find keys or a coffee mug our visual and cognitive processes function with relative ease to guide us to the objects that we seek Monitoring eye movements has allowed researchers to obtain'

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'Eye Guidance in Reading and Scene Perception 1st Edition

July 15th, 1998 - Preface Contributors Eye guidance and visual information processing reading visual search picture perception and driving G Underwood R Radach Definition and computation of oculomotor measures in the study of cognitive processes A W Inhoff R Radach Eye movements and measures of reading time S P Liversedge et al'

'Cognitive Psychology Laboratory NeuroMarseille

September 11th, 2019 - the influence of visual salience and object identification processes on eye guidance during the perception of natural scenes Our work relies on a wide variety of methodologies and techniques classically used in experimental psychology psychophysics and behavioral and computational neuroscience'

'Eye movement parameters while reading show cognitive

November 23rd, 2019 - Eye movement parameters while reading show cognitive processes of structural analysis of written speech Established in 2008 the Russian Psychological Society s Journal «Psychology in Russia State of the Art» publishes original articles"Eye Guidance and Visual Information Processing Reading

September 2nd, 2019 - Eye guidance appears as low level as needed and as cognitive as possible for a given set of circumstances The evidence and the interpretations of the evidence are the subject of debate however and this chapter provides an introduction to this argument Eye Guidance in Reading and Scene Perception G Underwood Editor 9 1998 Elsevier Science'

'Cognitive processes in eye guidance Book 2005 WorldCat

September 11th, 2019 - Get this from a library Cognitive processes in eye guidance Geoffrey Underwood This book brings together leading vision scientists studying eye movements across a range of activities such as reading driving computer activities and chess It provides groundbreaking new "***Cognitive Behavioral Theory***

December 26th, 2019 - ional responses to life situations In CBT models cognitive processes in the form of meanings judgments appraisals and assumptions associated with specific life events are the primary determinants of one?s feelings and actions in response to life events and thus either facilitate or hinder the process of adaptation" **A review of eye tracking for understanding and improving**

December 15th, 2019 - The present review provides an overview of eye tracking technology the perceptual and cognitive processes involved in medical interpretation how eye tracking has been employed to understand medical interpretation and promote medical education and training and some of the promises and challenges for future applications of this technology"Eye Guidance in Reading Fixation Locations within Words

November 25th, 2019 - Three broad categories of models of eye movement guidance in reading are described According to one category eye movements in reading are not under stimulus or cognitive control the other two categories indicate that cognitive activities or stimulus characteristics are involved in eye guidance In this study a number of descriptive analyses"First Saccadic Eye Movement Reveals Persistent Attentional

December 23rd, 2019 - This study uses the first saccadic eye movement as an index of spatial attention Unlike RT which measures all processes that happen in a trial the first saccade in a search trial occurs long before target detection and is a relatively pure index of attentional guidance Eckstein Drescher amp Shimozaki 2006 Jones amp'

'Contextual guidance of eye movements and attention in real

December 15th, 2019 - Contextual guidance of eye movements and attention in real world scenes The role of global features on object search Antonio Torralba Computer Science and Arti?cial Intelligence Laboratory Massachusetts Institute of Technology Aude Oliva Department of Brain and Cognitive Sciences Massachusetts Institute of Technology Monica S Castelhana'

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August 10th, 2019 - It is these variations in eye movements that can tell us much about the cognitive processes involved in the performance of these activities Within reading research great progress has already been made in understanding these processes and there are now a number of competing and well formed models'

'Saccadic eye movements and cognition Trends in Cognitive

November 14th, 2019 - Scanning of the visual scene is an important selective process in visual perception In this article we argue that eye movement data provide an excellent on line indication of the cognitive processes underlying visual search and reading We outline some recent advances from physiological investigations of saccadic eye movement control before"Cognitive Processes in Eye Guidance Oxford Scholarship

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'Attention guidance and cognitive processing The

November 16th, 2019 - Abstract For the past decades researchers have paid much attention to exploring how cognitive processes influence eye movements Recently they have begun to directly look into the reciprocal relationship and test how eye movements might influence cognitive processes by using eye movement modeling examples EMME'

'Cognitive Processes and Eye Movements During Reading

December 6th, 2019 - Abstract For the past century researchers have struggled to unravel the complexities of cognitive processes involved in reading In this chapter we discuss some of the remarkable progress being made in the field of reading research and we show how eye movement measures have become instrumental in revealing the moment to moment activity of

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November 26th, 2019 - Abstract When inspecting an image for the first time how does the viewer decide where to look next The saliency map hypothesis proposes that viewers initially analyse the image for variations in low level visual features including intensity colour and edge orientation and that their eyes are guided towards the most salient region"Cognitive Processes in Eye Guidance University Press

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May 28th, 2013 - The current demonstration that eye movements encode sufficient information for successful classification of viewing task provides new evidence that cognitive processes directly influence eye movements consistent with theories that adopt a role for top down control of eye movements in complex tasks e g ? ?'

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