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# Visual Attention

**chapter 6: visual attention - university of washington** - chapter 6: visual attention "everyone knows what attention is. it is the taking possession by the mind in clear and vivid form, of one out of what seem several simultaneously possible **visual attention - harvard university** - wolfe j. visual attention. in: de valois kk, editor. seeing. 2nd ed. san diego, ca: academic press; 2000. p. 335-386. 4 such acts of visual attention are the subject of this chapter. because we cannot process everything, we must attend to something if we are to act on the basis of visual input. attention is a thriving area of research. **visual attention: the past 25 years - nyu psychology** - number of articles on visual attention published as a function of year in (a) all scientific journals and (b) in vision research. 1 results from the attention network test (ant), which is designed to evaluate alerting, orienting, and executive attention in adults, children, patients, and monkeys, **visual attention and eye movements** - visual attention and eye movements kang-chen chen, hye jung choi donald bren school of information and computer sciences (ics) university of california, irvine kangchec@uci hchoi7@uci 1. introduction visual perception occurs when the eyes retrieve information from the visual field. the process of choosing "what" to observe is selective. **visual attention - "spotlight" or "zoom lens" • measure ...** - visual attention spotlight model (posner) • focus visual attention to an area by using a cue - "spotlight" or "zoom lens" • measure time to identify target item when: - observer does not know where item will appear - observer does know where item will appear • cue is a briefly presented dot at the location of target **visual attention in consumer settings ihcp 150814** - visual 'attention'3' the role of visual attention in supporting all of the broader levels we have described. in a nutshell, attention is the mechanism through which information in the environment is selected for further processing. without micro-level attention, information in the environment has no effect on behaviors at any other time scale. **overview visual attention - wsu labs** - overview visual attention karla k. evans,1 todd s. horowitz,1 piers howe,1 roccardo pedersini,1 ester reijnen,2 yair pinto,1 yoana kuzmova1 and jeremy m. wolfe1\* a typical visual scene we encounter in everyday life is complex and filled with a huge amount of perceptual information. **a model of visual attention for natural image retrieval** - visual attention model to well simulate human vision mechanism for natural image retrieval or content-based image retrieval. (a) (b) figure 1. an example of the significant difference between two scenes. in order to build a visual attention model for cbir, ... **visual search and selective attention - university of florida** - visual search and selective attention hermann j. mu"ller and joseph krumpal ludwig-maximilian-university munich, germany visual search is a key paradigm in attention research that has proved to be a test **visual attention presentation - ics.uci** - visual attention: those processes that enable an observer to recruit resources for processing selected aspects of the retinal image more fully than non-selected aspects capacity - the amount of perceptual resources that is available for a given task or process. can vary with different **scaling up visual attention and visual working memory to ...** - both visual attention and visual working memory tend to be studied with very simple stimuli and low-level paradigms. in particular, the average attention or visual working memory study presents several simple shapes (possibly indistinct colors) on a simple, homogeneous background, and then asks about the allocation of attention or the limits of working ... **the relationship between visual attention and visual ...** - the relationship between visual attention and visual working memory encoding: a dissociation between covert and overt orienting a. caglar tas university of iowa and university of tennessee, knoxville **show, attend and tell: neural image caption generation with ...** - neural image caption generation with visual attention figure 2. attention over time. as the model generates each word, its attention changes to reflect the relevant parts of the image. "soft" (top row) vs "hard" (bottom row) attention. (note that both models generated the same captions in this example.) figure 3. **the relationship between attention and working memory** - the relationship between attention and working memory 3 schwarzbach, and yantis, 2003), and noise reduction (doshier and lu, 2000). the executive attention network acts on post-sensory representations, and is needed when there is competition for access to a central, limited-capacity system. paradigms that reveal the role of **visual attention detection in video sequences using ...** - visual attention deals with detecting the regions of interest (roi) in images and interesting actions in video sequences that are the most attractive to viewers. for example, in the task of object/action detection, visual attention detection significantly narrows the search range by giving a hierarchi- **visual attention reading - mit** - • can directly optimizing for visual attention/saliency lead to benefits for other computer vision applications or should visual attention naturally come out of the specific application? • can models of visual attention/saliency help bootstrap individual tasks or lead to generalization across tasks? **visual attention guided bit allocation in video compression** - visual attention guided bit allocation in video compression zhicheng lia,b, shiyin qina, laurent ittib,\* a school of automation science and electrical engineering, beihang university, beijing, china b computer science department, university of southern california, los angeles, ca, usa article info abstract article history: received 2 november 2009 received in revised form 13 may 2010 **3m visual attention service3m visual** - 3m visual attention service 3m visual attention service3m visual validation study abstract advances in both behavioral vision science and computational vision are the basis for computational models of human visual attention that take as input an image or video and make predictions about where people will fixate in the first 3 to 5 seconds

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of ... **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. **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 abstract applying convolutional neural networks to large images is computationally ex-pensive because the amount of computation scales linearly with the number of image pixels. **visual attention and change detection - researchgate** - visual attention, or whether covert attention suffices. computational saliency maps were used to identify the visual salience of the features within a set of images (itti et **ieee transactions on image processing 1 deep visual ...** - as visual attention prediction or visual saliency detection<sup>2</sup>, is a classic research area in the fields of computer vision and neuroscience. this modeling not only gives an insight into hvs, but also shows much potential in areas such as image cropping, object recognition [5], visual tracking [6], object **visual attention and hearing loss: past and current ...** - specifically, the visual system appears to play an important role in directing a deaf individual's attention to the near visual periphery. conclusions: studies of visual attention in deaf individuals have been mixed in their conclusions about whether altered neural organization results in better or worse visual attention abilities by those ... **infants' visual attention to baby dvds as a function of ...** - infants' visual attention to baby dvds as a function of program pacing alice ann howard gola and sandra l. calvert department of psychology georgetown university this study examined the effects of program pacing, defined as the rate of scene and character change per minute, on infants' visual attention to video presentations. **cell phone-induced failures of visual attention during ...** - cell phone-induced failures of visual attention during simulated driving david l. strayer, frank a. drews, and william a. johnston university of utah this research examined the effects of hands-free cell phone conversations on simulated driving. the **visual attention model for name tagging in multimodal ...** - the visual attention model extracts regional vi-sual features from the image and computes the weighted sum of the regional visual features as the visual context vector, based on their relatedness with the sentence. the blstm-crf sequence la-beling model predicts the label for each word in the sentence based on both the visual context vec- **learning, sb-0541953. visual attention and deafness - vl2** - key findings on visual attention and deafness: • deafness leads to changes specifically in visual attention, but not in all aspects of vision. • deafness enhances visual attention in the periphery. • evidence for changes to visual attention in the periphery can be observed in the brain. **cortical visual impairment - visual attention to movement ...** - cortical visual impairment - visual attention to movement and color in children with cortical visual impairment - july 2005 procedure each child was seated in his or her own wheelchair or in a stationary chair at eye level with the center of the two monitors at a 2-meter (about 6.5-foot) distance. the child's parent or caretaker **the interactive effects of colors on visual attention and ...** - tasking people would more pay attention to the objects), the study examines the effects of colors on people's visual attention and the relevance of attention to retention of working memory by performing a dual-task experiment called the box shooting test. the results show that the color effect shows significant differences on working memory **improving sign effectiveness with visual attention ...** - improving sign effectiveness with visual attention modeling software page 4 of 12 situations and help make work zones safer both day and night. 3m developers began working to improve the safety of work zones using 3m reflective materials to improve overall reflectivity or brightness. **learning saliency-based visual attention a review** - learning saliency-based visual attention: a review qi zhaoa,n, christof kochb,c a department of electrical and computer engineering, national university of singapore, singapore b computation and neural systems, california institute of technology, pasadena, ca, usa c allen institute for brain science, seattle, wa, usa article info article history: received 28 january 2012 **based on: "a computational perspective on visual attention ...** - visual processing time difficult to disentangle from motor processing time (for pointing at stimulus) image copyrighted: "a computational perspective on visual attention, john k. tsotsos, the mit press, cambridge ma, 2011" **ieee transactions on pattern analysis and machine ...** - state-of-the-art in visual attention modeling ali borji, member, ieee, and laurent itti, member, ieee abstract—modeling visual attention—particularly stimulus-driven, saliency-based attention—has been a very active research area over the past 25 years. many different models of attention are now available which, aside from lending ... **visual attention and the acquisition of information in ...** - features in the local environment is to monitor the visual at-tention of others through the assessment of gaze direction. gaze-following, or the use of perceived gaze direction to shift visual attention, is a common and recognizable phenomenon in humans as well as a number of other vertebrate species (6). in particular, **visual attention during brand choice: the impact of time ...** - intern. j. of research in marketing 16 1999 1-16 . visual attention during brand choice: the impact of time pressure and task motivation rik pieters a.), luk warlop b a department of business administration, tilburg uni"ersity, box 90153, 5000 le tilburg, netherlands b department of applied economics, katholieke uni"ersiteit leu"en, naamsestraat 69, 3000 leu"en, belgium **the spatial resolution of visual attention** - the spatial resolution of visual attention james intriligator and patrick cavanagh harvard university two tasks were used to evaluate the grain of visual attention, the

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minimum spacing at which attention can select individual items. first, observers performed a tracking task at many viewing distances. when the display subtended less than 1° **sustained and transient components of focal visual attention** - focal visual attention 1633 simple conjunctive fig. 1. portion of the 8 x 8 search arrays used in experiment 1 and 2 (reduced to 4 x 4 elements for clarity): simple--the odd target (horizontal) differs from the distracters only in **a boolean map theory of visual attention - pashler** - phenomena of attention to structure. keywords: visual attention, consciousness, visual feature visual attention, in its most fundamental sense, is a selective visual process that governs access to consciousness. therefore, a theory of visual attention may naturally start with two questions, addressing limitations in access and mechanisms of ... **the information capacity of visual attention** - the information capacity of visual attention preeti verghese,\*t denis g. pelli\*\$ received 23 august 1991; in revised form 13 november 1991 is visual attention mediated by a general-purpose processor with a small data capacity? such an **learning visual attention to identify people with autism ...** - learning visual attention to identify people with autism spectrum disorder ming jiang, qi zhao university of minnesota mjjiang@umn, qzhao@cs.umn abstract this paper presents a novel method for quantitative and objective diagnoses of autism spectrum disorder (asd) us- **attention! - wofford college** - • auditory vs. visual selective attention • type of task • memory load • automatic or controlled processes learning objective topics • selective attention • visual tasks • auditory tasks • early vs. late selection models • visual search • divided attention • attention blindness **visual attention to advertising: a segment-level analysis** - visual attention (e.g., Christianson et al. 1991). besides the limited value of memory scores as an indi- conventional statistical techniques that have been used cator for attention, memory research as such has been to analyze gaze duration data, including t-tests, anovas, questioned for a number of reasons. **space-based bias of covert visual attention in complex ...** - space-based bias of covert visual attention in complex regional pain syndrome janet h. bultitude,1,2,3 ian walker1 and charles spence4 some patients with complex regional pain syndrome report that movements of the affected limb are slow, more effortful, and lack **the origins of joint visual attention in infants** - two experiments examined the origins of joint visual attention with a training procedure. in experi-ment i, infants aged 6- 11 months were tested for a gaze-following (joint visual attention) response **visual attention shifting in autism spectrum disorder** - attention between global and local levels of a visual stimulus; and (2) to investigate the degree to which deficits in attention shifting as measured by these tasks in asd as compared to age- and gender-matched nt are related to social functioning. **visual attention span and optometric conditions: is there ...** - 198 visual attention span and optometric conditions ensures that the child's visual attention is not compromised by other surrounding objects (casco et al., 1998). therefore the test will measure the number of letters the child can recall after visually seeing them rather than their ability to 'discover' the letter (casco et al., 1998). **chun - contextual cueing contextual cueing of visual attention** - visual attention marvin m. chun visual context information constrains what to expect and where to look, facilitating search for and recognition of objects embedded in complex displays. this article reviews a new paradigm called contextual cueing, which presents well-defined, novel visual **plugged in: the effects of electronic media use on ...** - reactive cognitive control. both listening to music and playing music and party video games are associated with superior visual-spatial attention. additionally, experimentally assigning participants to play an action video game for 10 sessions not only improved visual attention but also impaired proactive cognitive control, **a model of eye movements and visual attention** - simplistic model of visual attention and no model of eye movements. emma extends act-r/pm to these processes and thus enables act-r/pm models to account for a richer set of empirical phenomena. 1 eye movements and visual attention the ability to model eye movements and visual attention independently may seem at first like a subtle and ... **a behavioral analysis of computational models of visual ...** - model of visual attention and for evaluating its performance in terms of similarity to human behavior. we use this framework to evaluate the itti et al. (1998) model of visual attention, a computational model that serves as the basis for many robotic visual attention systems.

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