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TEXT ID f924f410 Online PDF Ebook Epub Library Simultaneous Modeling Of Visual Saliency And Value

Simultaneous modeling of visual saliency and value ...

saliency) and/or intrinsic or behavioral relevance (“top-down” Significance Many everyday decisions require viewing displays with several alternatives and then rapidly choosing one, eg, choosing a snack from a vending machine Each item has objective visual properties, such as saliency, and subjective properties, such as value

HIGH SPEED VISUAL SALIENCY COMPUTATION ON GPU

HIGH SPEED VISUAL SALIENCY COMPUTATION ON GPU Bo Han, Bingfeng Zhou Institute of Computer Science and Technology Peking University, Beijing, PRC China ABSTRACT Visual saliency analysis provides a power tool for many applications In this paper, we propose a practical and high performance GPU-based visual saliency computational model

Learning adaptive contrast combinations for visual ...

Visual saliency detection plays a significant role in the fields of computer vision In this contrast computation based on simple low-level image stimuli signals, such as luminance, MKL refers to a kernel learning machine that combines inputs from various image features [8, 57] Recent research efforts on MKL have shown that using a

Saliency guided Wavelet compression for low-bitrate Image ...

Fast wavelet saliency computation Image saliency map Wavelet saliency map level=1 Wavelet saliency map level=2 Fig 2 The wavelet saliency computation procedure We recursively compute the Haar wavelet transform of the LL band at each decomposition level, and copy the saliency values to the corresponding locations in the LH, HL and HH bands

2428 IEEE TRANSACTIONS ON PATTERN ANALYSIS AND ...

Index Terms—Image saliency, Fourier transform, spectral analysis, fixation prediction, learning-based, experimental study Ç 1 INTRODUCTION THE history of visual saliency is an extremely long story The concept of computational visual saliency modeling, however, is still very young in the field of computer vision and image processing

Learning saliency-based visual attention A review

Learning saliency-based visual attention: A review Qi Zhao^{a,n}, Christof Koch^{b,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

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saliency computation Experiments over multiple saliency models show consistent improvement when compared to standalone local saliency computation In our knowledge, this is the first time multi-camera saliency has been applied with unrestricted camera placement and overlapping in field of view for unlimited number of visual sources

Deep Contrast Learning for Salient Object Detection

Since this paper is focused on visual saliency based on deep learning, we discuss relevant work in this context below Recently, machine learning and artificial intelligence have been revolutionized by deep convolutional neural networks, which have set new state of the art on a number of visual recognition tasks, including image classifi-

Recurrently exploiting co-saliency of target for part ...

computation We employ a cluster-based saliency de-tection method [21], which uses the contrast and spatial cues of a single image to construct a saliency map of the target area of each frame, and we then sam-ple the part based on the saliency map 211 Saliency map We apply the k-means clustering method to divide the

Unsupervised Foveal Vision Neural Networks with Top-Down ...

Oct 20, 2020 · fixations will target the regions in the visual periphery [3] [5] Most saliency measures work by combining a number of simple features such as color, intensity, and orientation to find distinct regions in images that could attract the human eye Three competing views of saliency are the center-surround methods that compare a local center to a

IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ...

Index Terms—Visual saliency, interest point detection, coincidence detection, visual recognition, object detection from cluttered processing step that saves computation and improves 990 IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, VOL 31, NO 6, JUNE 2009

Fig 1 Bottom-up versus top-down saliency

Top-Down Visual Saliency via Joint CRF and Dictionary Learning

Top-down visual saliency involves the processes of fea-ture learning and saliency computation [6] Gao et al [6] propose a top-down saliency algorithm by selecting dis- Recent advances in machine learning enable us to train task-specific dictionaries in a supervised manner [18, 28,

Object of Interest Detection by Saliency Learning

It has been widely accepted that visual saliency computation can be e fected in a bottom-up manner [8{11] Departing from this strategy, Itti et al [9] pro-posed a computational framework for visual saliency which decomposes visual input into component feature maps In [12], Alter and Basri used image edges to construct the saliency map

Top-Down Visual Saliency via Joint CRF and Dictionary Learning

saliency maps and then briefly describe CRF and dictionary learning methods that are related to the proposed joint learn-ing algorithm 21 Top-Down Saliency Maps Top-down visual saliency involves the processes of fea-ture learning and saliency computation [6] Gao et al [6] propose a top-down saliency algorithm by selecting dis-

IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ...

Abstract—Predicting where people look in static scenes, aka visual saliency, has received significant research interest recently However, relatively less effort has been spent in understanding and modeling visual attention over dynamic scenes This work makes three contributions to video saliency research

Topic Transition in Educational Videos Using Visually ...

ing a saliency score to each word extracted from an edu-cational video We design several mid-level features that are indicative of visual saliency The optimal feature com-bination strategy is learnt from a Rank-SVM to obtain an overall visual saliency score for all the words Second, we use these words and their saliency scores to nd the prob-