

A Visual Segmentation Method For Temporal Smart Card Data

[MOBI] A Visual Segmentation Method For Temporal Smart Card Data

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A Visual Segmentation Method For

A SPATIAL SEGMENTATION METHOD - Semantic Scholar

can emerge from simple computation on these local cues As a consequence we consider that a spatial segmentation method can detect visual objects from images if it can detect at least the most objects The aim in this paper is to present a new and efficient method to detect visual objects from **Human-centric Visual Relation Segmentation Using Mask R ...**

of each visual relation should be localized with masks instead of bounding boxes In this paper, we propose a novel human-centric visual relation segmenta-tion method using Mask R-CNN model and VTransE model These two models are the state-of-the-art in instance segmentation and visual relation detection, respectively

Visual Segmentation of “Simple” Objects for Robots

Visual Segmentation of “Simple” Objects for Robots Ajay K Mishra and Yiannis Aloimonos University of Maryland, College Park Maryland, 20742 Abstract—The ability to automatically segment a “simple” object of any size from its background is important for an active agent (eg a ...

Pre-attentive Visual Segmentation Algorithm for Cognitive ...

Pre-attentive Visual Segmentation Algorithm for Cognitive Robots Yuanlong Yu and Jason Gu* Abstract—Pre-attentive segmentation is one of important process for object-based visual perception of

Superiority Of Graph Based Visual Saliency (GVS) Over ...

Superiority Of Graph-Based Visual Saliency (GVS) Over Other Image Segmentation Methods Umu Lamboi, Issa Fofana, Yahya Labay Kamara Abstract: Although inherently tedious, the segmentation of images and the evaluation of segmented images are critical in computer vision processes

A Human Visual System-Driven Image Segmentation Algorithm

A Human Visual System -Driven Image Segmentation Algorithm 1 Renbin Peng *, Student Member, IEEE, and Pramod K Varshney, Fellow, IEEE 2
 Abstract—This paper presents a novel image segmentation algorithm driven by human visual system (HVS) properties Quality metrics for evaluating the segmentation result, from both region-based and boundary-

Movable-Object-Aware Visual SLAM via Weakly Supervised ...

Movable-Object-Aware Visual SLAM via Weakly Supervised Semantic Segmentation Ting Sun 1, Yuxiang Sun , Ming Liu1, Dit-Yan Yeung2

Abstract—Moving objects can greatly jeopardize the performance of a visual simultaneous localization and mapping (vS-LAM) system which relies on the static-world assumption Motion

Image Segmentation in Twenty Questions

model for the future rounds We evaluate our method on three publicly available segmentation datasets with various visual properties and compare it with several baselines The experiments demonstrate that our approach is a promising solution to the problem of interactive object segmentation with binary inputs only The question selection

Patchwork: A Patch-Wise Attention Network for Efficient ...

segmentation techniques have motivated a wide range of works to extend these methods to process video streams In this paper, we explore the idea of hard attention aimed for latency-sensitive applications Instead of reasoning about every frame separately, our method selects and only processes a small sub-window of the frame Our technique

Deep Multi-modal Object Detection and Semantic ...

object detection and semantic segmentation Since deep learning has been most-commonly applied to image-based signals, here we only discuss image-based methods We will introduce other methods that process LiDARs and Radars in Sec V-A For a more comprehensive overview on object detection and semantic segmentation, we refer the interested

Expansion Segmentation for Visual Collision Detection and ...

Expansion Segmentation for Visual Collision Detection and Estimation Jeffrey Byrne and Camillo J Taylor Abstract Collision detection and estimation from a monocular visual sensor is an important enabling technology for safe navigation of small or micro air vehicles in near earth flight In this paper, we introduce a new approach called expansion

Top-down Segmentation of Non-rigid Visual Objects using ...

stage in non-rigid top-down visual segmentation methodologies [4,5,9,30,31] The intrinsic low dimensionality of sparse manifolds decreases the search running time complexity of the current state-of-the-art rigid detection approaches aforementioned Moreover, by restricting the positive and negative samples to lie in the learned low-

A Cross Structured Light Sensor and Stripe Segmentation ...

A Cross Structured Light Sensor and Stripe Segmentation Method for Visual Tracking of a Wall Climbing Robot Liguozhang, Jianguo Sun *, Guisheng Yin, Jing Zhao and Qilong Han College of Computer Science and Technology, Harbin Engineering University, Harbin 150001, China;

Visual Segmentation and Localization of Mobile Robots ...

vision, a new visual segmentation algorithm based on the feedback adjustment of threshold is presented in paper First, the position information of the mobile robots is described by the color label plates which are designed by ourselves; then, the improved grid method is used to search the color labels; finally, the

Story Segmentation in News Videos Using Visual and Text Cues

Story Segmentation in News Videos Using Visual and Text Cues 93 this problem Hoashi et al [3] has proposed an SVM-based news segmentation method The segmentation process contains the detection of the general story boundaries, in addition of the special type of stories, eg, finance report and sport news Finally, the

Top-Down Segmentation of Non-rigid Visual Objects Using ...

Top-down Segmentation of Non-rigid Visual Objects using Derivative-based Search on Sparse Manifolds Jacinto C Nascimento Instituto de Sistemas e Robotica ´ Instituto Superior Tecnico ´ Lisboa, Portugal Gustavo Carneiro Australian Centre for Visual Technologies The University of Adelaide Adelaide, Australia Abstract The solution for the top

Segmentation methods for visual tracking of deep-ocean ...

RIFE AND ROCK: SEGMENTATION METHODS FOR VISUAL TRACKING OF DEEP-OCEAN JELLYFISH 597 Fig 2 Comparison of processing and preparation requirements for (a) existing assessment techniques and (b) a new input-focused technique

Contour-Based Image Segmentation Using Selective Visual ...

In many medical image segmentation applications identifying and extracting the region of interest (ROI) accurately is an important step The usual approach to extract ROI is to apply image segmentation methods In this paper, we focus on extracting ROI by segmentation based on visual attended locations Chan-Vese active contour model is used

A Robust Pointer Segmentation in Biomedical Images Toward ...

step toward extracting relevant visual features from ROIs and combining them with textual descriptions for a multimodal (text and image) biomedical article retrieval system Recently we developed a pointer recognition algorithm based on an edge-based pointer segmentation method,