

Automatic detection of salient objects and spatial relations in videos for a video database system

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Abstract

Multimedia databases have gained popularity due to rapidly growing quantities of multimedia data and the need to perform efficient indexing, retrieval and analysis of this data. One downside of multimedia databases is the necessity to process the data for feature extraction and labeling prior to storage and querying. Huge amount of data makes it impossible to complete this task manually. We propose a tool for the automatic detection and tracking of salient objects, and derivation of spatio-temporal relations between them in video. Our system aims to reduce the work for manual selection and labeling of objects significantly by detecting and tracking the salient objects, and hence, requiring to enter the label for each object only once within each shot instead of specifying the labels for each object in every frame they appear. This is also required as a first step in a fully-automatic video database management system in which the labeling should also be done automatically. The proposed framework covers a scalable architecture for video processing and stages of shot boundary detection, salient object detection and tracking, and knowledge-base construction for effective spatio-temporal object querying.

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Keywords: Multimedia databases; Salient object detection and tracking; Camera focus estimation; Object labeling; Knowledge-base construction; Spatio-temporal queries

1. Introduction

The rapid increase in the amount of multimedia data has resulted in the development of various technologies for handling large volumes of data. These technologies concentrate on efficient compression and storage of the multimedia data. One of the particularly interesting storage systems is the “multimedia database”, which stores multimedia content that can be queried by various features [1]. Some examples of prototype multimedia database systems include QBIC [2], VisualSeek [3], and VideoQ [4]. If the media is video, the queried features are spatial, spatio-temporal, semantic, motion (e.g., object trajectories) and

object features (e.g., color, shape, texture) [5]. Before retrieval, the videos need to be processed to extract the features that can be queried. Since the first appearance of multimedia databases, research on efficient means of feature extraction has become popular. To this end, some manual, semi-automatic and automatic tools have been developed [3,4,6–8].

This paper proposes a framework for automatic salient object extraction. The framework is used to detect and track salient objects in a given video automatically and construct a list of spatio-temporal features for our video database system, *BSVideo* [9]. This process aims to reduce the huge amount of time and effort required for manual selection and labeling of objects for video indexing.

We first use a color histogram-based shot boundary detector to find the shot boundaries. Then, each video is processed on a shot basis following the common practice: salient objects within each shot are detected and tracked. At the end of processing each shot, tracked objects satisfying

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web bab ii kajian teori a belajar 1 pengertian belajar proses pembelajaran dapat terjadi dilingkungan mana saja seperti keadaan alam manusia tumbuhan hewan dan hal lainnya yang dapat dijadikan sebagai sumber belajar dalam kamus besar bahasa indonesia secara etimologis belajar memiliki arti berusaha memperoleh kepandaian ilmu

bab ii kajian teori a 1 model pembelajaran pengertian model pembelajaran - Aug 05 2023

web a landasan teori 1 model pembelajaran a pengertian model pembelajaran pembelajaran pada hakikatnya merupakan suatu proses interaksi antara pendidik dengan peserta didik baik interaksi secara langsung seperti kegiatan tatap muka maupun tidak langsung yaitu dengan menggunakan berbagai media

bab ii kajian teori a hakikat belajar 1 pengertian belajar - Jul 24 2022

web bab ii kajian teori hakikat belajar pengertian belajar dan pembelajaran belajar merupakan salah satu proses dan aktivitas yang dilakukan dan dialami manusia sejak manusia didalam kandungan buaian tumbuh berkembang dari anak remaja hingga menjadi dewasa sampai kelahirannya sesuai dengan prinsip pembelajaran sepanjang

bab ii kajian teori a definisi pembelajaran universitas - Jun 22 2022

web c pembelajaran ips di sekolah dasar 1 definisi pembelajaran ips menurut kurikulum depdiknas 2006 5 pengetahuan sosial itu adalah suatu bahan adaptasi seleksi dan modifikasi yang diorganisasikan dari konsep konsep dan keterampilan keterampilan sejarah geografi sosiologi antropologi dan ekonomi

bab ii kajian teoritis a belajar dan pembelajaran 1 belajar - Mar 20 2022

web bab ii kajian teoritis a belajar dan pembelajaran 1 belajar belajar merupakan tindakan dan perilaku siswa yang kompleks sebagai tindakan maka belajar hanya dialami oleh siswa sendiri siswa adalah penentu terjadi atau tidaknya proses belajar dimana proses belajar terjadi berkat siswa memperoleh sesuatu yang ada di lingkungan

bab ii kajian pustaka a kajian teori 1 pengertian pembelajaran - May 02 2023

web apa yang dipelajari pembelajaran sendiri menurut piaget konkret dan abstrak menjelaskan bahwa proses pembelajaran terbagi menjadi 3 yaitu asimilasi akomodasi dan ekuilibrasi asimilasi adalah proses penyatuan informasi kedalam unsur kognitif yang sudah ada proses akomodasi adalah penyesuaian struktur kognitif kedalam