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deviation (MAD), mean square error (MSE), root mean square error (RMSE) is used to measure the accuracy of forecasting methods. Based on accuracy, single exponential smoothing (SES) with α =0.3 produces the most accurate forecasting. Method used in this paper is readily transferable to other milk product data sets with weekly demand figures.

Keywords: Semi average method (SAM) and Naïve Method.

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Authors: Dipika P. Chanmanwar, Priyanka S. Ghode Paper Title: Arbitrary-Ratio Image/Video Resizing Using Fast DCT of Composite Length for DCT-Based Transcoder

Abstract: The most popular image and video compression methods such as JPEG, MPEG 1/2/4, H.261/3/4 use transform domain techniques and in particular the Discrete Cosine Transform (DCT). One application for such images or video sequences is resizing. Resizing is extensively used to meet the requirements of a specific system, to satisfy user's interests, or to correct spatial distortions. However, a major difficulty encountered when resizing such media is the high computational complexity and the loss of quality caused by the decompression and compression. The purpose of this paper is to implement an arbitrary ratio image resizing scheme in the DCT domain for transcoding of the compressed images. There are several advantages in working in the DCT domain, of these advantages the one that stands out the most is the fact that images are stored in the DCT domain and therefore no initial computation is needed in order to work on the image. The downsizing process in the discrete cosine transform (DCT) domain can be implemented by truncating high-frequency coefficients, whereas the upsizing process is implemented in the DCT domain by padding zero coefficients to the high-frequency part. The implemented method combines a fast inverse and forward DCT of composite length for arbitrary-ratio upsizing or downsizing. The implemented method shows a good peak signal-to-noise ratio and less computational complexity compared with the spatial-domain and previous DCTdomain image resizing methods. Further it will compare several methods offered by different authors for image resizing. The implemented method of arbitrary ratio image resizing improve peak signal-to-noise ratio and reduces computational complexity when compared with other existing methods. This implemented approach of image resizing is extended for video resizing. The PSNR values of the resized video are calculated by using an existing tool. The obtained PSNR values are better when compared with other existing tools.

Keywords: Arbitrary-ratio image resizing, composite length DCT, transcoder.

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Authors: Tamkanath Sabeeha, Siva Yellampalli

Paper Title: Design of a Data Collection and Transmission System Based on AD9284

Abstract: This paper introduces a high speed dual channel data collection system based on AD9284 which can transmit data to PC by USB interface chip CYUSB3014. USB is more used than some traditional inter-PC Bus such as PCI due to the high speed and agility and also provides properly convenient communication interface for A/D conversion. This paper not only focusing on the characteristics of the AD9284, but also explains the interface circuit. By controlling the variation of the signal from analog to digital, the system achieves the point of the high-speed dual-channel data collection and real time monitoring, It can be primly used as a Spectrum analyzer or Oscilloscope in back-end receiver system.

Keywords: AD9284; Data collection; PLL IC AD9510; USB3.0.

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Authors: Mohamad Firdaus Che Abdul Rani, Nor Azlina Abd Rahman, Khalida Shajaratuddur Harun Paper Title: Intelligent Travel Advisor System (ITAS)

Abstract: This paper is discussing on Intelligent Travel Advisor System (ITAS) Framework. The purpose of this system is to help the tourist to plan their trip based on budget, tourist spots or any criteria that they want to base on. Several similar systems reviewed such as TripAdvisor, Priceline and Expedia Inc to identify the functionalities, strength and weaknesses of the existing system. Overall ITAS system architecture discussed that includes user terminals, ITAS and payment Agencies. ITAS components are highlighted which are web crawling, database and secure network. The process that involve in ITAS divided into three parts which are input process that accept the criteria of searching, system process that match the input with certain websites by using web crawler and output process that will display the information that match with user's input. Besides that this paper is also discussing on the impact of ITAS to the tourists and society.

Keywords: Advisor; intelligent; trip; tourist; Web Crawler.

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