Abstract

In Video summarization is a method to reduce redundancy and generate succinct representation of the video data. In video summarization process, several frames containing similar information need to get processed, this leads to slower processing speed and higher complexity, consuming. More time Video summarization using key frames can ease the speed up of video processing. One of the mechanisms to generate video summaries is to extract key frames which represent the most important content of the video by identifying near duplicate frames in video. In this paper, novel key frames extraction method is proposed with Thepade's Walsh Hademard Error Vector Rotation (THdEVR) with ten different codebook sizes and and assorted similarity measures. Experimentation done with help of the test bed of videos has shown that higher codebook sizes give better completeness in key frame extraction for video summarization. Experimental results are discussed for video content summarization with five assorted similarity measures like Euclidean Distance, Canberra Distance, Square-Chord Distance, Mean Square Error, Sorensen Distance with proposed THadVR.
Hadamard based Video Key Frame Extraction using Thepade’s Transform Error Vector Rotation with Assorted Similarity Measures

- Dr. H. B. Kekre, Sudeep D. Thepade, Varun K. Banura, "Performance Comparison of Gradient Mask Texture Based Image Retrieval Techniques using Walsh, Haar

Index Terms

Computer Science
Multimedia

Keywords
Key frame  video summarization  vector quantization  hademard