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| Title | VIDEO TEXT EXTRACTION USING DISCRETE WAVELET TRANSFORM | | |
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| Abstract |  |
| Text extraction from video content is considered as a key  part in understanding, structuring, mining, indexing, automatic  annotating and retrieval of useful information. However, automatic  video text extraction is extremely challenging due to variations of  text, low image contrast, and complex background. In this paper,  we have proposed a discrete wavelet-based method for localizing  and extracting caption or superimposed texts from videos. First, the  vertical, horizontal, and diagonal edges are detected by using Haar  wavelet transform. Then, region of interest (ROI) is extracted by  logical AND operation of edge images. After that, adaptive run  length smearing algorithm (ARSLA) along with projection profile  analysis is exploited for noise refinement. Finally, text regions are  localized and extracted using features of connected components.  Experimental results confirm the satisfactory localization and  extraction of captions and subtitles in video sequences using the  designed approach. | |