This paper proposes an efficient video copy detection method for the H. 264/AVC standard. The mechanism is based on content-based copy detection (CBCD). The proposed method divides each frame within a group of three consecutive frames into a grid. Each corresponding grid across these groups of frames is then sorted in an ordinal vector which describes both, the spatial as well as the temporal variation. This ordinal matrix-based copy-detection scheme is effective in detecting not only a copied video clip but also its location within a longer video sequence. The technique has been designed to work in the compressed domain which makes it computationally very efficient. The proposed mechanism was tested on a number of video sequences containing copies which had undergone a variety of modifications. The results proved that the proposed technique is capable of detecting these copies effectively and efficiently and hence is suitable for forensic applications.

References

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Efficient Spatiotemporal Matching for Video Copy Detection in H. 264/AVC Video

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Index Terms

Computer Science  Multimedia

Keywords

Content-based Copy Detection  H. 264/avc  Ordinal Measurement