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A CONTENT BASED MULTIMEDIA RETRIEVAL SYSTEM

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Abstract

Multimedia search and retrieval has become an active field for many contemporary information systems. This paper presents a scheme of retrieving a multimedia object, i.e. a video clip with audio. For video retrieval, the system searches a particular query video clip from a database of video clips by matching on the basis of motion vector analysis. For audio retrieval, the audio from the query is to be separated and matched using the fingerprint algorithm with all the audio files of the videos from the database and provide rankings to the matched files.

Author Keywords

Multimedia, CBVR, Query, Image, Audio, Motion Compensation

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Reference

References (21)

1. Aroh Barjatya
Block Matching Algorithms For Motion Estimation

(2004)

2. Avery Wang

An Industrial-Strength Audio Search Algorithm

(2003) *International Symposium on Music Information Retrieval (ISMIR 2003)*, Baltimore, MD,

3. S. F. Chang, W. Chen, H. J. Meng, H. Sundaram, D. Zhong

A fully automated content-based video search engine supporting spatiotemporal queries

(1998) *IEEE Transactions on Circuits and Systems for Video Technology*, Volume 8, Issue 5, Page No 602 - 615,

DOI: <https://doi.org/10.1109/76.718507>

Article Link: <https://ieeexplore.ieee.org/document/718507>

4. H. T. Chen, H. H. Lin, T. L. Liu

Multi-object tracking using dynamical graph matching

(2001) *Proceedings of the 2001 IEEE Computer Society Conference on Computer Vision and Pattern Recognition. CVPR 2001*, Volume 2, Page No 210,

DOI: <https://doi.org/10.1109/CVPR.2001.990962>

Article Link: <https://ieeexplore.ieee.org/abstract/document/990962>

5. Q. Zang & R. Klette

Robust background subtraction and maintenance

(2004) *Proceedings of the 17th International Conference on Pattern Recognition, 2004. ICPR 2004*, Page No 90–93,

DOI: <https://doi.org/10.1109/ICPR.2004.1334047>

Article Link: <https://ieeexplore.ieee.org/document/1334047>

6. S. J. McKenna, S. Jabri, Z. Duric, A. Rosenfeld, and. H. Wechsler

Tracking groups of people

(2000) *Computer Vision and Image Understanding*, Volume 80, Issue 1, Page No 42-56,

DOI: <https://doi.org/10.1006/cviu.2000.0870>

Article Link: <https://www.sciencedirect.com/science/article/abs/pii/S1077314200908701>

7. S. Jabri, Z. Duric, H. Wechsler, A. Rosenfeld

Detection and location of people in video images using adaptive fusion of color and edge information

(2000) *Proceedings 15th International Conference on Pattern Recognition. ICPR-2000*, Volume 4, Page No 4627,

DOI: <https://doi.org/10.1109/ICPR.2000.902997>

Article Link: <https://ieeexplore.ieee.org/document/902997>

8. Tsuhan Chen

From Low-Level Features to High-Level Semantics: Are We Bridging the Gap?

(2005) *Seventh IEEE International Symposium on Multimedia (ISM'05)*, Page No 179,

DOI: <https://doi.org/10.1109/ISM.2005.62>

Article Link: <https://ieeexplore.ieee.org/document/1565830>

9. R. Wang and T. Huang

Fast camera motion analysis in MPEG domain

(1999) *Proceedings 1999 International Conference on Image Processing (Cat. 99CH36348)*, Volume 3, Page No 691-694,

DOI: <https://doi.org/10.1109/ICIP.1999.817204>

Article Link: <https://ieeexplore.ieee.org/document/817204>

10. Yoshitaka, A., Ichikawa, T

A survey on content-based retrieval for multimedia databases

(1999) *IEEE Transactions on Knowledge and Data Engineering*, Volume 11, Issue 1, Page No 81–93,

DOI: <https://doi.org/10.1109/69.755617>

Article Link: <https://ieeexplore.ieee.org/document/755617>

11. B. V. Patel and B. B. Meshram
Content Based Video Retrieval Systems

(2012) *International Journal of UbiComp (IJU)*, Volume 3, Issue 2,

12. T.N.Shanmugam, Priya Rajendran
An Enhanced Content-Based Video Retrieval System Based On Query Clip

(2009) *International Journal of Research and Reviews in Applied Sciences*, Volume 1, Issue 3,

13. Che-Yen Wen, Liang-Fan Chang, Hung-Hsin Li
Content based video retrieval with motion vectors and the RGB color model

(2007) *Forensic Science Journal*, Volume 6, Issue 2,

14. Kuo, C.T., Chen, L.P
Content-based query processing for video databases

(2000) *IEEE Transactions on Multimedia*, Volume 2, Issue 1, Page No 1 - 13,

DOI: <https://doi.org/10.1109/6046.825790>

Article Link: <https://ieeexplore.ieee.org/document/825790>

15. S. Dagtas, W. Al-Khatib, A. Ghafoor, R.L. Kashyap
Models for motion-based video indexing and retrieval

(2000) *IEEE Transactions on Image Processing*, Volume 9, Issue 1, Page No 88 - 101,

DOI: <https://doi.org/10.1109/83.817601>

Article Link: <https://ieeexplore.ieee.org/document/817601>

16. Y. Tsai, A. Averbuch
Automatic segmentation of moving objects in video sequences: a region labeling approach

(2002) *IEEE Transactions on Circuits and Systems for Video Technology*, Volume 12, Issue 7, Page No 597 - 612,

DOI: <https://doi.org/10.1109/TCSVT.2002.800513>

Article Link: <https://ieeexplore.ieee.org/document/1015672>

17. C.W. Ngo, T.C. Pong, H.J. Zhang
Motion-based video representation for scene change detection

(2002) *International Journal of Computer Vision*, Page No 127-142,

18. A. Del Bimbo and P. Pala
Content-Based Retrieval of 3D Models

(2006) *ACM Transactions on Multimedia Computing*, Volume 2, Issue 1, Page No 20-43,

19. Ali Amiri, Mahmood Fathy, and Atusa Naseri
A Novel Video Retrieval System Using GED based Similarity Measure

(2009) *International Journal of Signal Processing, Image Processing and Pattern Recognition*, Volume 3, Issue 2,

20. Gopal Thapa, Kalpana Sharma and M.K.Ghose
Multi Resolution Motion Estimation Techniques for Video Compression: A Survey

(2012) *International Journal of Computer Engineering and Technology*, Volume 3, Issue 2, Page No 399 - 406,

Scope Database Link: <https://sdbindex.com/documents/00000005/00000-60274.pdf>

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Article Link: https://iaeme.com/MasterAdmin/Journal_uploads/IJCET/VOLUME_3_ISSUE_2/IJCET_03_02_041.pdf

21. Vilas Naik and Sagar Savalagi

Textual Query Based Sports Video Retrieval by Embedded Text Recognition

(2013) International Journal of Computer Engineering and Technology, Volume 4, Issue 4, Page No 556 - 565,

Article Link: https://iaeme.com/MasterAdmin/Journal_uploads/IJCET/VOLUME_4_ISSUE_4/IJCET_04_04_055.pdf

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