IEEE.org

Institutional Sign In

Institutional Sign In

ADVANCED SEARCH

Q

Conferences > 2022 2nd International Confer...

ΑII



Key Frame Extraction Analysis Based on Optimized Convolution Neural Network (OCNN) using Intensity Feature Selection (IFS)

Publisher: IEEE

Cite This

T. Prabakaran; Loveleen Kumar; S Ashabharathi; S Prabhavathi; Maneesh Vilas Deshpande; Mochammad Fahlevi All Authors ***

43 Full

Text Views









Manage Content Alerts Add to Citation Alerts

Alerts

Abstract



Document Sections

I. Introduction

II. Related Work

III. Proposed Method

III. Results and Discussion

Authors

Figures

References

Keywords

Metrics

More Like This

V. Conclusion

Down

▶ Metadata

Abstract:

The multimedia is playing role of timing frames in videos. The representation frame shows the intention on video definition. The keyframes the important factor for extraction information from video frames. The non-related frames is a problem for finding new key exposure. In this paper, we present a new method for extracting essential frames from motion capture data using Optimized Convolution Neural Network (OCNN) and Intensity Feature Selection (IFS) for better visualisation and understanding of motion content. It first removes noise from motion capture data using the Butterworth filter, then reduces the size via principal component analysis (PCA). Finding the zero-crosses of velocity in the main components yields the initial set of crucial frames. To avoid redundancy, the first batch of important frames is divided into identical poses. Experiments are based on data access from frames in the motion capture database, and experimental results suggest that crucial frames retrieved by our method can improve motion capture visualisation and comprehension.

Abstract: The multimedia is playing role of timing frames in videos. The representation frame shows the intention on

Published in: 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS)

Date of Conference: 10-12 October 2022 INSPEC Accession Number: 22448818

video definition. The keyframes the important factor for extrac... View more

Date Added to IEEE Xplore: 28 December 2022 DOI: 10.1109/ICTACS56270.2022.9988474

Publisher: IEEE ▶ ISBN Information:

Conference Location: Tashkent, Uzbekistan

T. Prabakaran

Department of CSE, Joginpally B.R. Engineering College, India

Loveleen Kumar

Department of Computer Science and Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan

S Ashabharathi

Visvesvaraya technological University, India

S Prabhavathi

RYMEC Ballari, India

Maneesh Vilas Deshpande

Department of Computer Science, Tai Golwalkar Mahavidyalaya Ramtek, India

Mochammad Fahlevi

Department of Management, BINUS Online Learning, Bina Nusantara University, Indonesia



I. Introduction

Key frames are commonly utilised in non-linear browsing and video content analysis applications. It is critical to understand how to swiftly extract key frames from video. This article [1] presents a method for extracting key frames from compressed video streams. The similarity packages of nearby I-frame DC images are determined first, followed by the clustering technique, and lastly the major frames are chosen based on the clustering findings. Experiment findings show that our method can extract relevant key frames from test video files fast and easily.

