

SOCIAL DANCE APPLICATIONS

The capabilities of technology today has allowed for ease of storing and retrieval of dance media files. However, due to the rich semantic content of dance media files and the volume of dance media available, it becomes a challenge to search a database for specific dance content.



Develop a mobile dance application that documents Latin dance based on user annotations and a system to allow users to search dance content. It is intended for dancers or users of the application to be able to retrieve dance content enabling a recall in order to perform the dance move retrieved, through searching annotations and other keywords with the help of query expansion techniques.





The Dance Annotation **Tool: MetaDance**

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METADANCI

Add Vide

View Video

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We developed a dance annotation tool to solve the problem of documenting dance media files.



- Dance vocabulary for annotating
- Pre-defined dance terms
- Self-defined dance terms





Dance Ontology

Iteration 2 Iteration 3 Iterations No. of dance terms collected for Salsa at each iteration

No. of dance terms collected for Cha-Cha-Cha

at each iteration

 $R^2 = 0.6494$

Iterations

Figure 2: The number of dance terms collected for each dance type at each iteration

Annotate Dance Videos

Browse Edit/Delete Database Annotations

Figure 1: General Structure of Dance Ontology Developed

The Dance Archival System: DanceBase

DanceBase is a system developed to allow users to search for dance multimedia with or without exact knowledge of dance terminology. The DanceBase search engine allows users to search data from a dance database. The dance database was designed

and developed for the DanceBase system and houses dance images, video and audio for salsa, bachata and cha cha dance styles.



Functionalities





Conclusions

The Dance Annotation Tool successfully allows users to annotate dance media. The method used for collecting dance terms works well and can be extended to other formal dances that can be included in the tool. The Dance Archival System produced a database to store dance multimedia and implements query expansion techniques which improved recall as hypothesized. Overall the completion of this project resulted in two applications to help dancers store, document and learn from dance media



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