THINKIT AUDIO GENRE CLASSIFICATION SYSTEM

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ABSTRACT

This paper describes our submitted system for the MIREX 2008 "Audio Genre Classification" task, the goal of which is to discriminate music experts of different genre classes, such as Blues, Jazz, Classical and Rock. The introduced method is based on a GSV-SVM framework, which is successfully applied in speaker recognition field. Only short-time spectral features are used to verify the effectiveness of this framework. ...

1 INTRODUCTION

The MIREX (Music Information Retrieval Evaluation eXchange) framework provides a common platform to compare and evaluate a vast variety of MIR systems. And the MIREX 2008 "Audio Genre Classification" task aims to evaluate state-of-art music genre classification algorithms [1].

The system introduced in this paper is based on a GSV-SVM framework, which is successfully applied in speaker recognition field. And only short-time spectral features are used to verify the effectiveness of this framework. Specifically, Mel Frequency Cepstral Coefficients (MFCC) are extracted ...

2 FEATURES

2.1 Mel Frequency Cepstral Coefficients

MFCC

2.2 Super Vector

3 IMPLEMENTATION

The algorithm is implemented in C++ and is for Windows platform. The execution time ...

4 EVALUATION RESULTS

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5 CONCLUSION AND FUTURE WORK

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6 ACKNOWLEDGEMENTS

References

[1] *http://www.music-ir.org/mirex/2008/index.php*.