Abstract

Music analysis is the main task in the musical information retrieval (MIR) systems. In this paper an analytical study based on these MIR techniques has been carried out to perform analysis of the Indian classical music and Indian ragas. The ragas are further classified into various thaats and their pitch class profiles and statistical measures. This paper demonstrates the strategy by which the various raga can be categorized using these statistical measures. The choices of algorithm used are the EM algorithm and the Naive bayes algorithm. Indian classical music is very popular because of the musical styles and the emotions it can reveal. Thus MIR (musical information retrieval) and its musical analysis is a very good choice for the researchers who have both knowledge of music and computer background. This paper includes the Matlab programming environment and toolbox for the effective result simulations. The EM and naive bayes algorithm have been utilized and the open source platform has been used for the rest of the work.
Analytical Approach on Indian Classical Raga Measures by Feature Extraction with EM and Naive Bayes

- Vigliensoni, G. JWEMINER REFINEMENT FINAL PROJECT REPORT.
performance by extracting features from different types of data. In Proceedings of the international conference on Multimedia information retrieval (pp. 257-266). ACM.


**Index Terms**

Computer Science          Signal Processing

**Keywords**

EM algorithm    naive bayes    Indian classical music    music information retrieval    classification

clustering.