

Tutorial 4: Audio Retrieval
(SEMESTER II: 2001-2002)

CS4241 Multimedia Information Systems

1. For the technique of audio retrieval utilizing tone histograms, one drawback of the method is that *temporal information* of the note sequence is lost in this aggregate feature. Suggest a way of improving the ATB histogram method in order to incorporate the temporal sequence. Provide a suitable distance measure for your new feature.
2. Explain how the pitch-detection algorithm works for the melody curve based music retrieval.
3. How is the slope-sequence based filtering done to reduce the number of matches for similarity comparison?
4. Explain the similarity measure for melody-curve matching.