





- Use information in search by adding a term:

$$P(E) = \sum_{m=1}^{M} \sum_{n=1}^{M} A(s_m, s_n) L(s_m, s_n) + \frac{w}{M-1} \sum_{o=1}^{M} \log \left(p_N(g_o | g_{1:(o-1)}) \right) \sum_{m=1}^{M} \sum_{n=1}^{M} A(s_m, s_n)$$

$$p_N: \text{ N-gram probability, } w: \text{ weighting factor.}$$

-the N best tokens are propagated and removed from the buffer.

Tokens store travelled state sequence.

- Tokens arriving to end state contain found structure descriptions.
- Operation parametrised by number of propagated tokens and maximum number of stored tokens.

• The effect of using musical part N-grams in the fitness function studied.

 Musicological model has very small effect on frame-by-frame grouping result.

 Musicological model improves result when evaluated by correctly labelled frames (compared to post-process labelling).