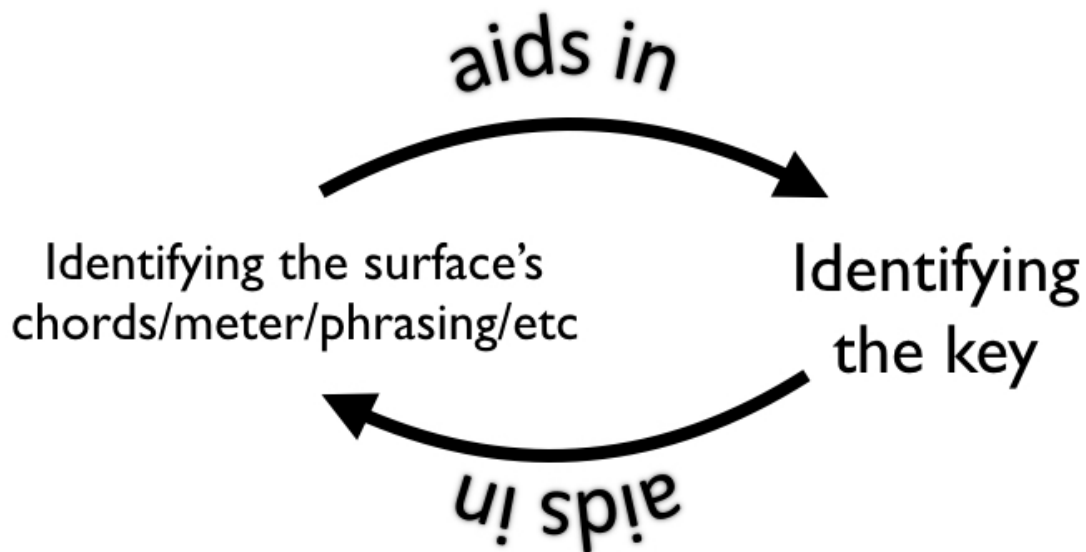
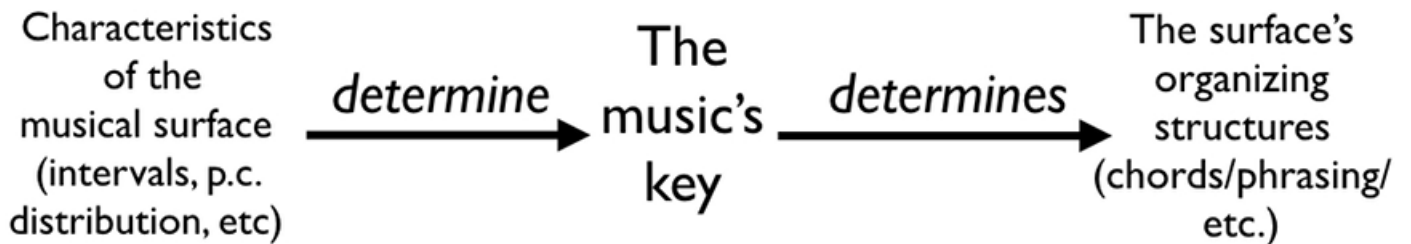


MTO 24.2 Examples: White, Feedback and Feedforward Models of Musical Key

(Note: audio, video, and other interactive examples are only available online)

<http://mtosmt.org/issues/mto.18.24.2/mto.18.24.2.white.html>

Example 1a and b. Feedforward and Feedback ways of schematizing how key interacts with other musical parameters



Example 2. Mozart, Piano Sonata, K. 284, iii, mm. 1–8 (slurring from Breitkopf edition)

Example 3. Grieg, “The Mountain Maid,” op. 67, no. 2, mm. 4–7, along with tonal analyses provided by two computational models

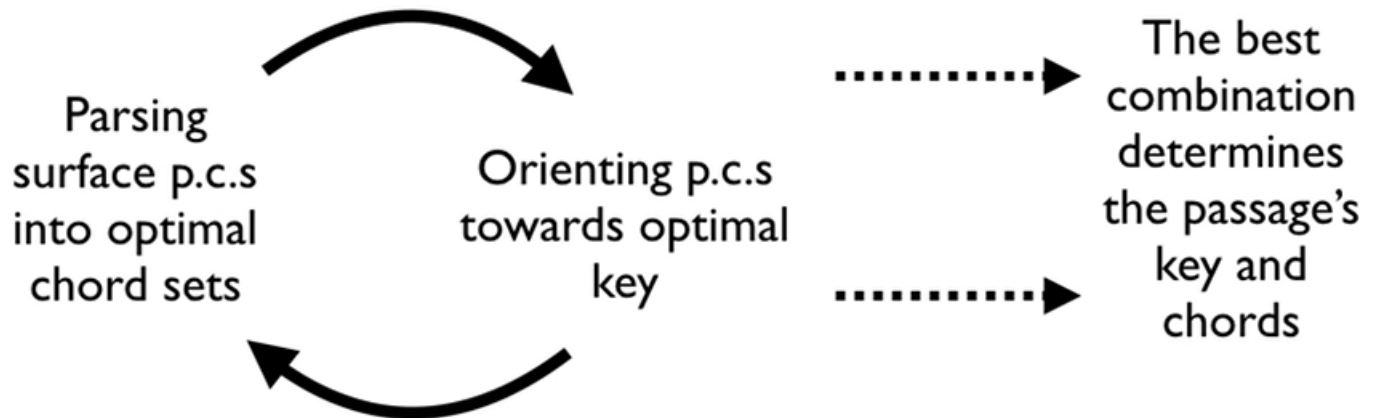
Key-profile
model’s key
solutions:

A-flat major *or*
F minor *or*
D-flat major

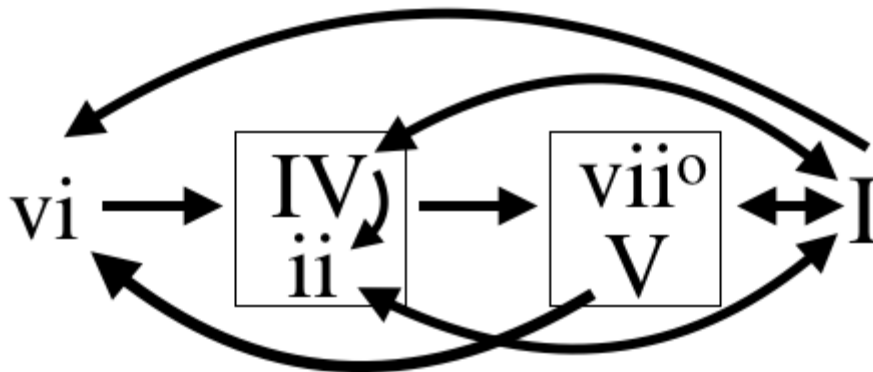
Chord-progression
model’s analyses:

f:	\flat VII	V ⁷	i	\flat VI
D-flat:	ii ⁷	—	V ⁷	I

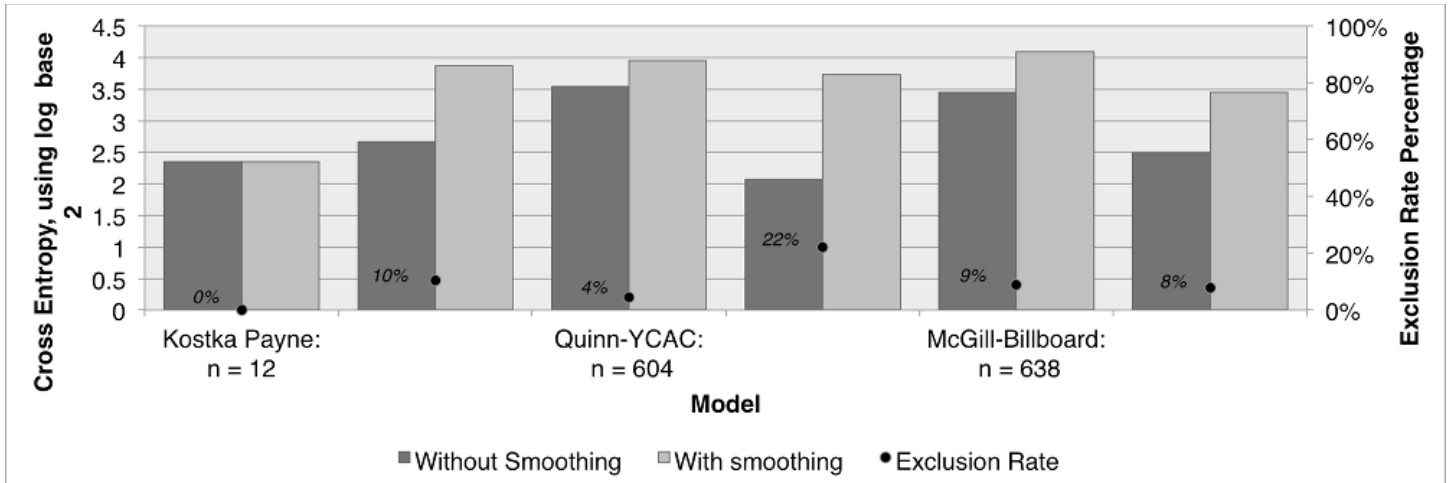
Example 4. A feedback loop between key and chord grouping



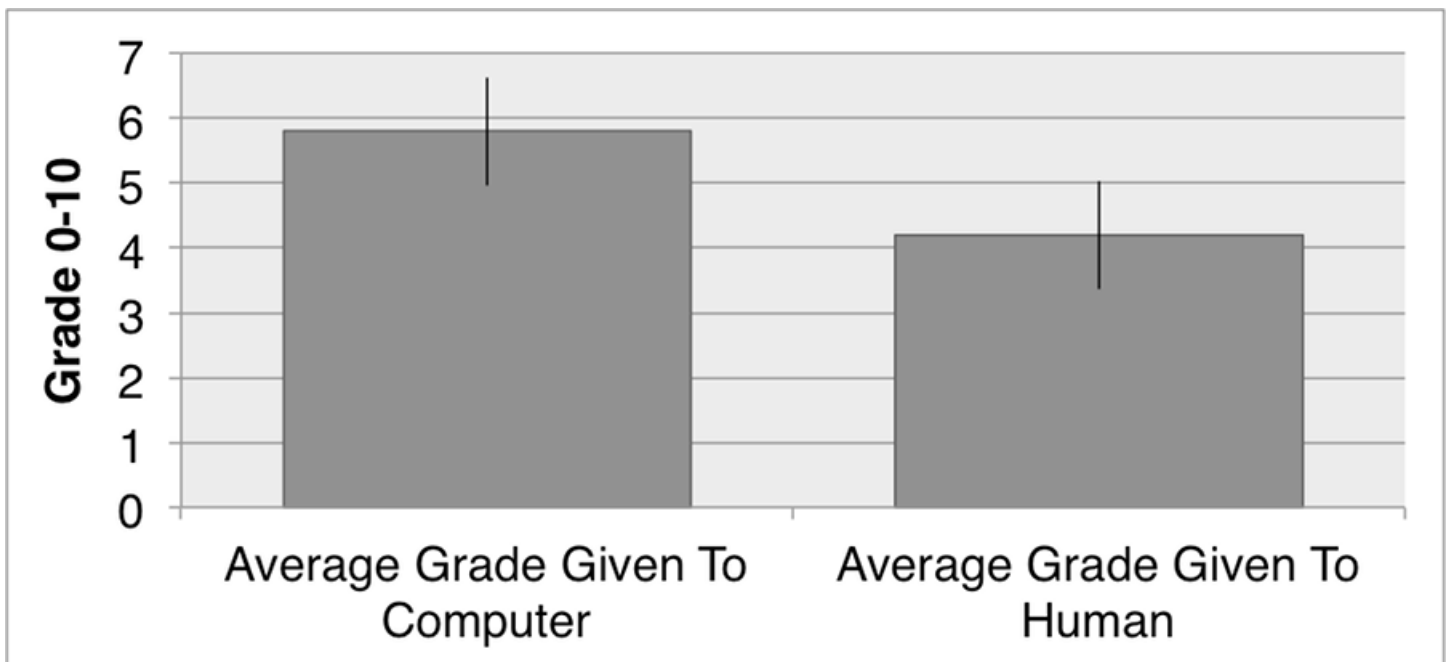
Example 5. A hypothetical toy chord-progression model, with arrows representing the most probable between-chord successions



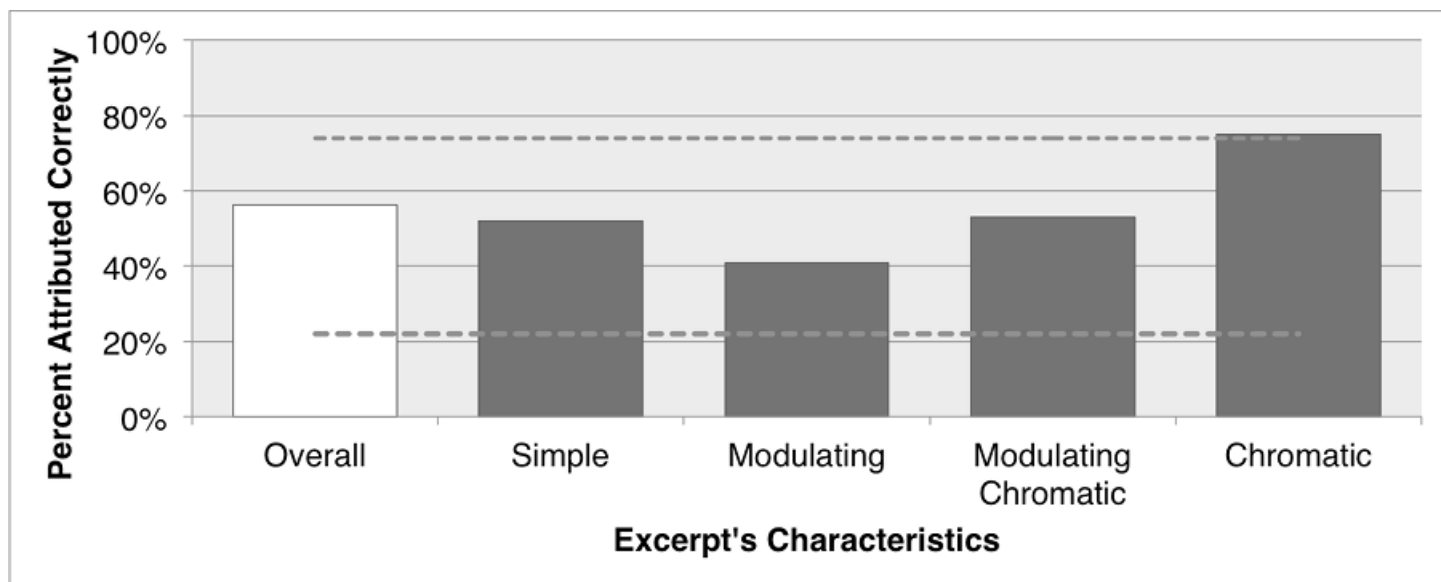
Example 8. Cross entropy results for each corpus-based model



Example 9. Comparing graders's assessments of both groups of analyses



Example 10. Percent of participants who correctly distinguish the human/computer analysis (dotted lines show the 95% confidence window for a $p < 0.05$ binomial distribution)



Example 11. Human (left) and computer (right) analyses of mm. 29–37 of Brahms' "Und gehst du über den Kirchhof" op. 44, no. 10

The image displays two side-by-side musical scores for the same passage (mm. 29-37) of Brahms' "Und gehst du über den Kirchhof" op. 44, no. 10. The tempo is marked "Lento assai, cantabile e tranquillo".

Human Analysis (Left): Shows a piano score with a vocal line. The piano part includes dynamic markings like *p* and *cresc.*, and Roman numeral chord markings: I, V, VII, I.

Computer Analysis (Right): Shows a similar piano score but with different annotations. It includes dynamic markings like *p* and *cresc.*, and Roman numeral chord markings: I, ii, V, VII, ii, V, I.