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Analyzing Algorithmic Predictions of Emotion in Music

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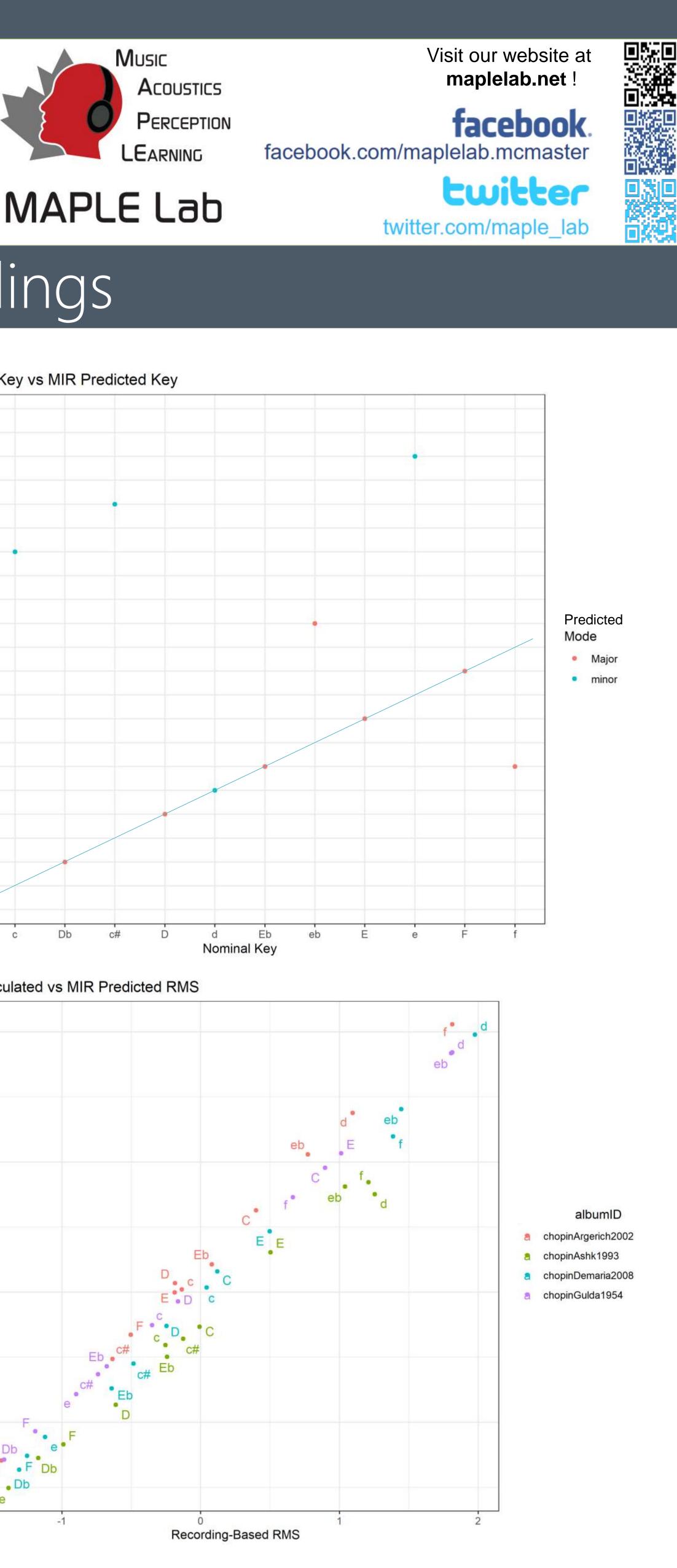
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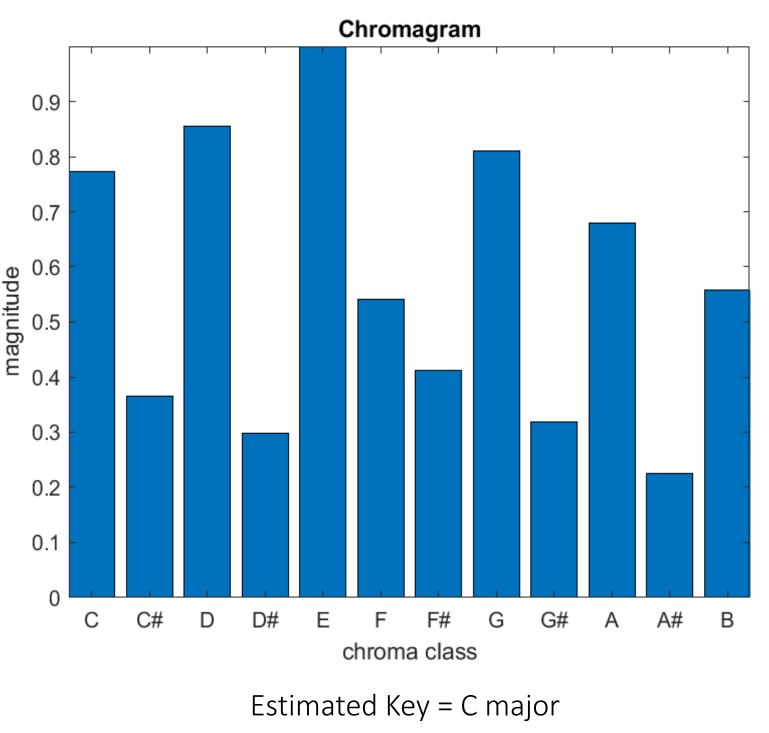


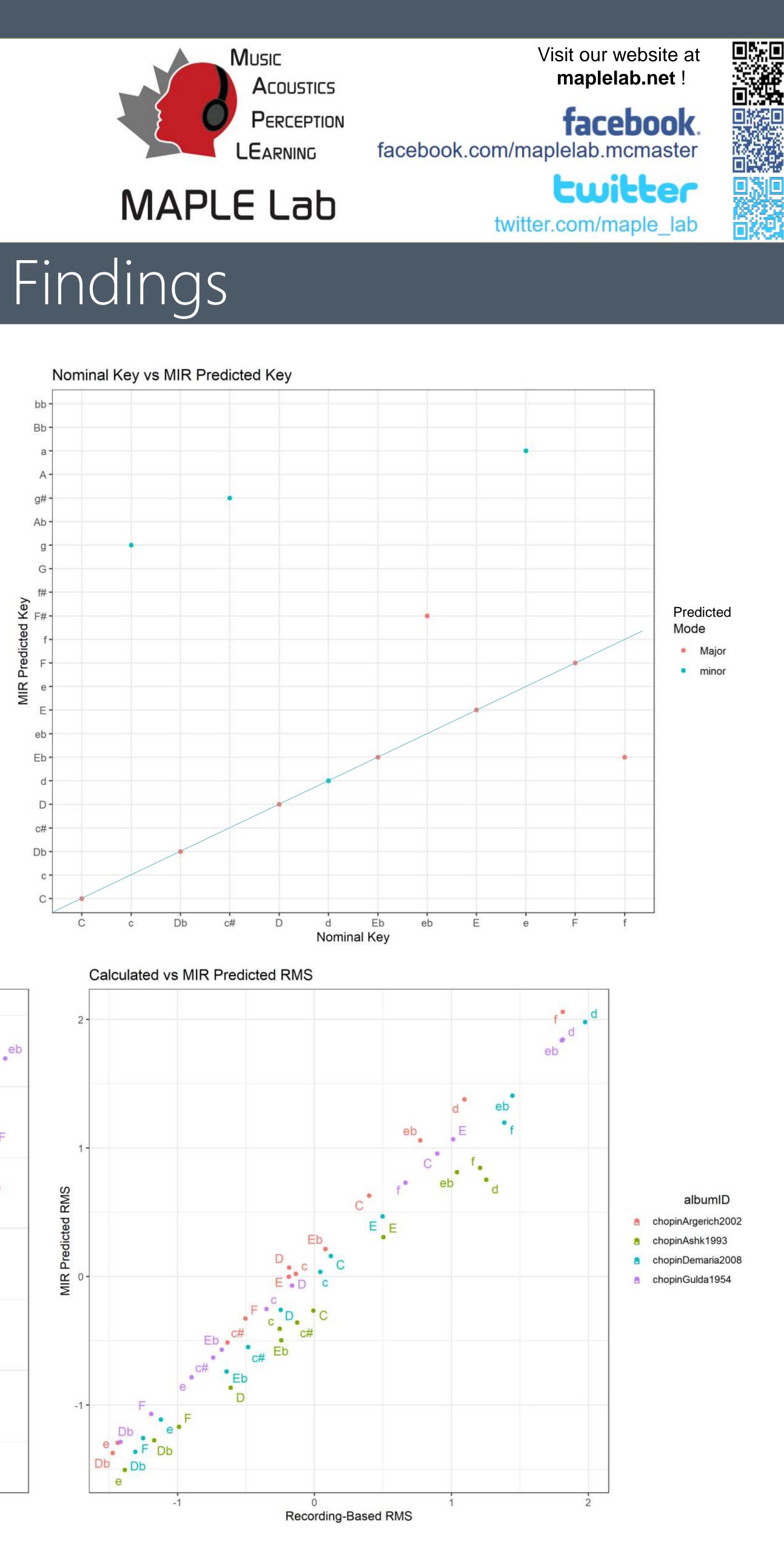
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Summary

• We compared algorithmic predictions of features to score-based analyses and found generally reliable results at detecting the relative strength of each chroma class (pitch), but inconsistencies in all other cues except loudness (RMS) features. • Many studies use MIRToolbox for automatic music analysis but relying on the accuracies of the feature extraction algorithms

• Possible future directions include implementing ground truth datasets as other methods of improving machine learning

Selected References

Kim, Y. E., Schmidt, E. M., Migneco, R., Morton, B. G., Richardson, P., Scott, J., ... & Turnbull, D. (2010, August). Music emotion recognition: A state of the art review. In Proc. ismir (Vol. 86, pp. 937-952). Quinto, L., Thompson, W. F., & Taylor, A. (2014). The contributions of compositional structure and performance expression to the communication of emotion in music. Psychology of Music, 42(4), 503–524.