LEARNING INVARIANTS FOR POLYPHONIC INSTRUMENT RECOGNITION

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ABSTRACT

The abstract should be placed at the top left column and should contain about 150-200 words.

1. INTRODUCTION

- 2. DEEP CONVOLUTIONAL NETWORKS
- 2.1 Time-frequency representation
- 2.2 Architecture
- 2.3 Training
- 3. DEEP SUPERVISION OF MELODIC CONTOUR
- 3.1 Disentangling pitch from timbre
- 3.2 Extraneous supervision
- 3.3 Joint supervision
- 3.4 Visualization
 - 4. SINGLE-INSTRUMENT CLASSIFICATION

4.1 Experimental design

In order to evaluate the proposed algorithms, we used MedleyDB [1], a dataset of 122 multitracks annotated with instrument activations as well as melodic f_0 curves when present.

4.2

5. POLYPHONIC CLASSIFICATION

5.1 Experimental design

6. CONCLUSIONS

7. REFERENCES

[1] Rachel Bittner, Justin Salamon, Mike Tierney, Matthias Mauch, Chris Cannam, and Juan Bello. Medleydb: a multitrack dataset for annotation-intensive mir research. International Society for Music Information Retrieval Conference, 2014.

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