Binaural Scene Classification with Time-frequency Scattering and Deep Convolutional Networks

Vincent Lostanlen École normale supérieure 45 rue d'Ulm, 75005 Paris, France

Abstract—The abstract goes here.

I. Introduction

II. TIME-FREQUENCY SCATTERING

$$y_2[t, k_1, k_2] = (x_1 *^{t, k_1} \psi_{k_2})[t, k_1]$$
 (1)

$$\mathbf{W_2}[t, k_1, k_2] = \alpha \psi(\alpha t) \times |\beta| \psi(\beta k_1) \tag{2}$$

III. DEEP CONVOLUTIONAL NETWORKS

[?]

$$\boldsymbol{x}[t] = r \times \boldsymbol{x}^{\mathsf{L}}[t] + (1 - r) \times \boldsymbol{x}^{\mathsf{R}}[t],\tag{3}$$

where r is drawn uniformly at random in the interval [0,1].

IV. CONCLUSION

The conclusion goes here.