CoWriter : Two case Studies

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ABSTRACT

Abstract comes here

Keywords

handwriting learning, mutual modelling, ...

1. INTRODUCTION

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2. CASE 1 : DIEGO

Diego is a 5 years hold child. A few days before the experiment, his mother provided us with a picture showing some of his handwriting works (figure 1). This sample allowed us to create a dataset of letters based on his main mistake. Then we run a PCA algorithm feed by this dataset to extract eigenvectors representing the direction of the most important deformations (figure 2). Our idea was to use it to make the robot amplifying the mistakes of Diego. Thus, by correcting the robot, Diego was actually going to correct himself.

2.1 Experiment design

2.2 Results

3. CASE 2 : HENRY

Description of experiments & results with Diego

3.1 Experiment design

3.2 Results

4. DISCUSSION

5. CONCLUSIONS

Figure 1: Homework performed by Diego before the experiment. It gives an overvew of his starting level in handwriting.

Figure 2: Letter deformation along an eigenvector. *Left* : the non-deformed letter (origin of the eigenspace). *Middle* : the actual Diego's deformation (from figure 1). *Right* : exaggerated deformation along the eigenvector that encode Diego's mistake.