Multi-script handwritten character recognition

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Propositions

1. The goal in multi-script handwritten character recognition is to achieve a high recognition performance on isolated handwritten characters from different scripts.

– Chapter 1, this PhD thesis –

2. If a number of appropriate cost functions have been designed, the original A* path-planning algorithm can move through overlapping or connected text areas instead of moving around.

– Chapter 2, this PhD thesis –

3. Outputs of different classifiers can be combined and classified by the unweighted majority vote method, which results in high accuracies on isolated handwritten character datasets.

– Chapter 3, this PhD thesis –

4. In our isolated handwritten character datasets, the best feature descriptors achieve high recognition performances on challenging handwritten datasets with a simple classifier.

– Chapter 4, this PhD thesis –

5. Some feature extraction methods are able to capture the necessary information from the character images, which makes them important for a recognition algorithm.

– Chapter 4, this PhD thesis –

6. The combination of local feature descriptors and the bags of visual words approach gives the highest recognition performances.

– Chapter 5, this PhD thesis –