

國立高雄大學統計學研究所

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Text Image Recognition Based on Dynamic Time Warping

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Abstract

Text recognition has been widely used in various industries, such as banking and technology. However, since the same text has multiple fonts, it becomes more difficult to extract features. This study proposes a text recognition method, called DMF (Dynamic time warping Mean Filter), that can effectively handle multiple fonts of text. The DMF first projects images into sequences and aligns them by dynamic time warping. Next, the DMF method builds envelopes through compression learning to detect abnormal signals to distinguish different types of text. Empirical results demonstrate that the DMF produces better recognition accuracies than traditional methods in two datasets.

Keywords: Anomaly detection, compressed learning, dynamic time warping, feature selection

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