



**Input Document Image**

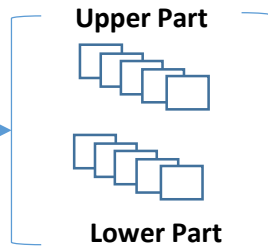
**Line and Word Segmentation**

The man who had taken

**Line**

Word  
directions

**Word**



$$f_0, f_1, f_2 \dots f_{n-1}, f_n \in \mathbb{R}^{12}$$

**12-D Sequential Feature**

**RNN**

**Sequence to Label Transcription**

**Script/Language Prediction**

