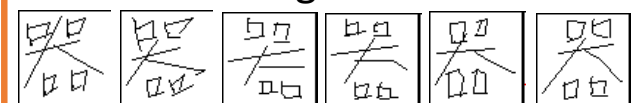


Online trajectory recovery from offline handwritten Japanese kanji characters

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Handwriting variants from different writers



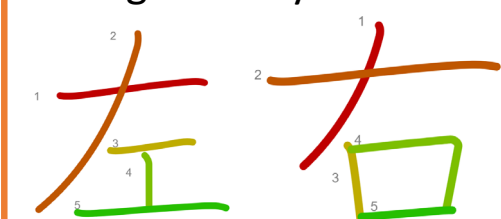
→ Represent variants by Gaussian Mixture Models.

Touching & Crossing by multiple strokes cause ambiguities.



→ Use LSTM and Attention to deal with ambiguities.

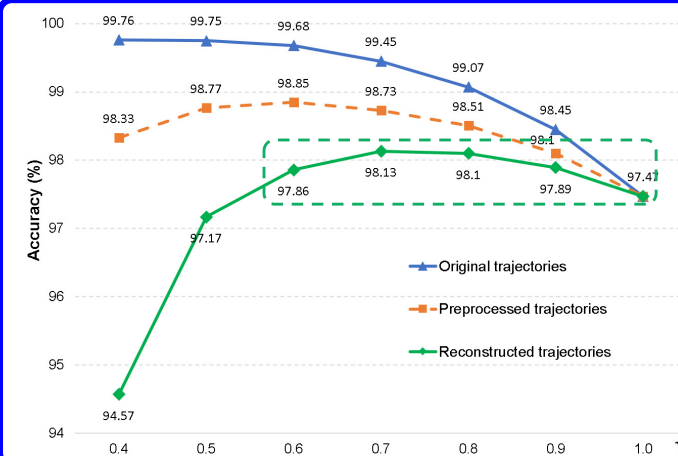
High variety of stroke orders in Kanji characters.



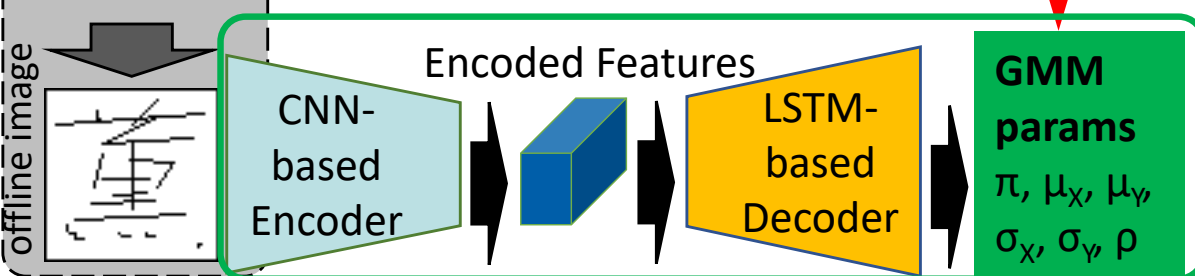
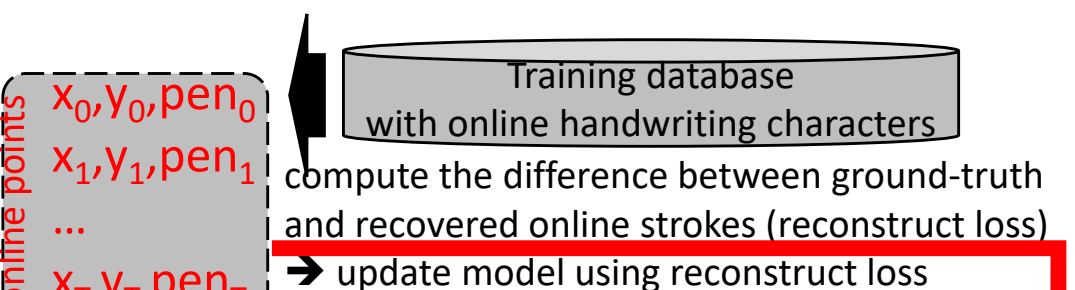
1st and 2nd strokes in two characters are often written in the opposite orders.

→ Employ CNN to extract discriminative features from an input image.

Source: <http://kanjivg.tagaini.net/viewer.html>



→ Offline recognition was improved using the recovered trajectories.



Details of network

