Trajectory Recovery by Transformer

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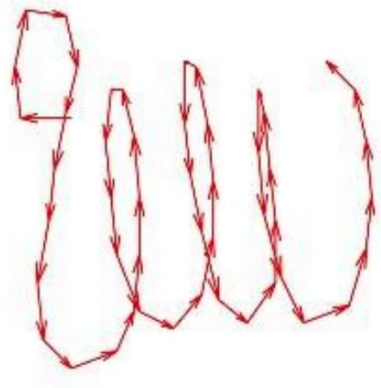
Trajectory Recovery

Reproduction of strokes from photographic image of handwritten character

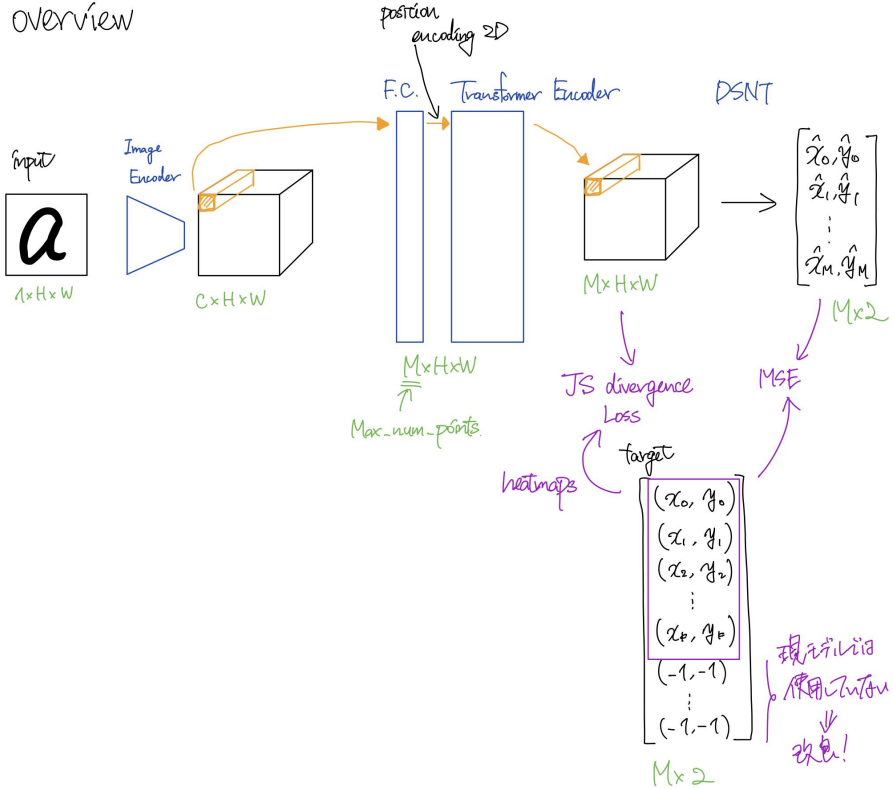


【(x1, y1), (x2, y2), …, (xn, yn)】

ref: [Handwriting Trajectory Recovery using End-to-End Deep Encoder-Decoder Network]

TraTra overview

Make the output of the Transformer have a time series information, but not in the way you usually imagine

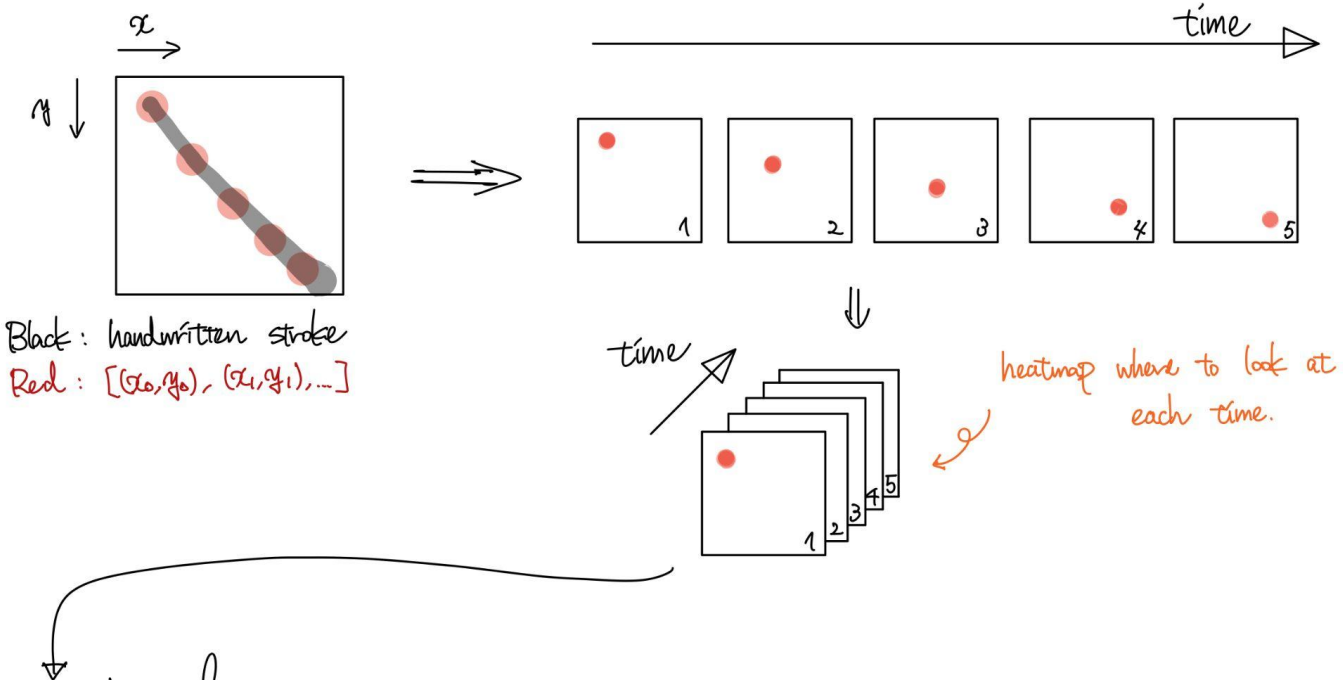


Briefly, there are

- Image Encoder (UNet)
- Transformer Encoder

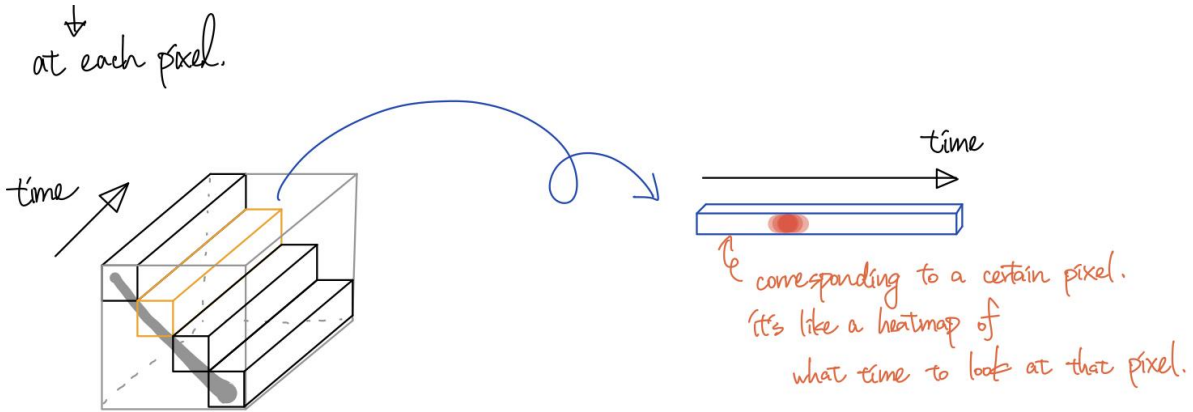
TraTra details

Move self-attention along strokes



TraTra details

Move self-attention along strokes



TraTra details

Considering the dimension of the hidden layer of Transformer's output as the dimension of the time axis