

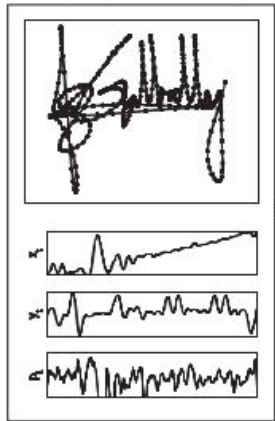
ENHANCED OFF-LINE SIGNATURE GENERATION
FROM DYNAMIC SIGNATURE SEQUENCES

They have the real offline signature but they don't take it into account to tune the model.

INPUT

Real on-line signature

Defined by sequences: $[x_t, y_t, p_t]$



Pressure model

Simple stroke: I_s



Intermediate Signature: I_{int}

$I_s + \text{pressure}$

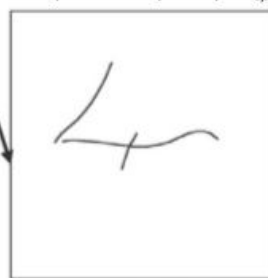


$I_s + \text{speed}$

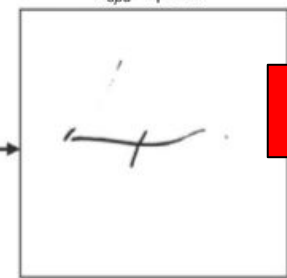


Speed model

Simple stroke pen-ups: I_{spu}



$I_{spu} + \text{speed}$



Ink deposition model

Ink deposition model

Pen-ups model

OUTPUT

Final synthetic off-line signature

images: $I_{enhanced} + I_{pen-ups}$

$I_{enhanced}$



$I_{pen-ups}$

