incremental inference approximate inference propagation thresholding adaptive drill-down approximate inference

Incremental Convolution and Pooling.

Symbol	Meaning
x_P^I, y_P^I	
x_P^R, y_P^R	
x_P^O, y_P^O	
H_P^I, W_P^I	
H_P^R, W_P^R	
H_P^O, W_P^O	
??	
H_k	
W_k	
P_x	
P_y	
S_x	
S_y	
??	
x_P^I, y_P^I	
H_P^I	
W_P^I	
x_P^O, y_P^O	
H_P^O	
W_P^O	
??	
x_P^R, y_P^R	
W_P^R, H_P^R	

$$x_P^O = max\big(\lceil (P_x + x_P^I - W_K + 1)/S_x \rceil, 0\big)$$

$$y_P^O = max\big(\lceil (P_y + y_P^I - H_K + 1)/S_y \rceil, 0\big)$$

$$W_P^O = min\big(\lceil (W_P^I + W_K - 1)/S_x \rceil, W_{out}\big)$$

$$H_P^O = min\big(\lceil (H_P^I + H_K - 1)/S_y \rceil, H_{out}\big)$$

$$x_P^R = x_P^O \times S_x - P_x$$

$$y_P^R = y_P^O \times S_y - P$$