

# Errata

The following errors have been noticed after the publication of the manuscript.

Page 25, Equation (4.3) is:

$$y_{i,j}(t) = f(x_{i,j}(t)) = \begin{cases} 0, & x_{i,j}(t) < V_m - \varepsilon \\ 1, & x_{i,j}(t) > V_m + \varepsilon \end{cases}, \quad 0 < \varepsilon \ll 1 \quad (1)$$

and should be:

$$y_{i,j}(t) = \varphi(x_{i,j}(t)) = \begin{cases} 0, & x_{i,j}(t) < V_m - \varepsilon \\ 1, & x_{i,j}(t) > V_m + \varepsilon \end{cases}, \quad 0 < \varepsilon \ll 1 \quad (2)$$

Page 30, 2nd paragraph is:

- There is at least one white pixel in the neighborhood that is marked by a nonzero template term. In this case, an inverted image  $\overline{IN}$  is applied as a network input, and black pixels in  $Y_{B>0} = Y(AB, \overline{IN}, 0.5)$  indicate such locations.

and should be:

- There is at least one white pixel in the neighborhood that is marked by a nonzero template term. In this case, an inverted image  $\overline{IN}$  is applied as a network input, and black pixels in  $Y_{W>0} = Y(AB, \overline{IN}, 0.5)$  indicate such locations.

Page 30, Equation (4.12) is:

$$Y_e(AB, U, Y(0), E, z) = [\varphi(AB * U - z) \wedge \overline{E}] \vee [\overline{Y(0)} \wedge E] \quad (3)$$

and should be:

$$Y_{\bar{e}}(AB, U, Y(0), E, z) = [\varphi(AB * U - z) \wedge \overline{E}] \vee [\overline{Y(0)} \wedge E] \quad (4)$$

Page 31, Equation (4.13) is:

$$\begin{aligned} match &= \overline{Y(AB^{(b)}, \overline{IN}, 0.5) \wedge Y(AB^{(w)}, IN, 0.5)} \\ &= \overline{Y(AB^{(w)}, IN, 0, \varphi(AB^{(b)} * \overline{IN} - 0.5), 0.5)} \end{aligned} \quad (5)$$

and should be:

$$\begin{aligned} match &= \overline{Y(AB^{(b)}, \overline{IN}, 0.5) \vee Y(AB^{(w)}, IN, 0.5)} \\ &= \overline{Y_{\bar{e}}(AB^{(w)}, IN, 0, \varphi(AB^{(b)} * \overline{IN} - 0.5), 0.5)} \end{aligned} \quad (6)$$

Page 123, Equation (A.17) is:

$$match = \overline{Y(AB^{(w)}, IN, 0, \varphi(AB^{(b)} * \overline{IN} - 0.5), 0.5)} \quad (7)$$

and should be:

$$match = \overline{Y_{\bar{e}}(AB^{(w)}, IN, 0, \varphi(AB^{(b)} * \overline{IN} - 0.5), 0.5)} \quad (8)$$