



Corrigendum

Corrigendum to “BYY learning, regularized implementation, and model selection on modular networks with one hidden layer of binary units” [Neurocomputing 51 (2003) 277–301][☆]

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The author wishes to make the following corrections:

On page 281, the line after Eq. (3):

“densities both $p(u), q(u)$ ” should be “densities, where both $p(u), q(u)$ are”.

On page 285, the first line of Eq. (20):

“ $y_{\ell,t} = y_{\ell}(x_t)$ ” should be “ $y_{t,\ell} = y_{\ell}(x_t)$ ”.

On page 286, the first line:

“(b) comes from (b)” should be “(d) comes from (a)”.

On page 287, in the last equation:

γ_{t,ℓ_t} should be $\gamma_{t,\ell}$.

On page 288, Step 1 in Table 1:

The positions of “BI-architecture” and “B-architecture” should be switched.

On page 288, Step 5 in Table 1:

γ_{t,ℓ_t} should be $\gamma_{t,\ell}$.

On page 289, Step 6 in Table 1:

γ_{t,ℓ_t} should be $\gamma_{t,\ell}$.

On page 289, in Eq. (32):

“ $A_{\ell}^{\text{new}} = A_{\ell}^{\text{old}} + \gamma_{t,\ell} e_{t,\ell}^{\text{old}} y_t^{\text{T}}$ ” should be “ $A_{\ell}^{\text{new}} = A_{\ell}^{\text{old}} + \gamma_{t,\ell} e_{t,\ell}^{\text{old}} y_{\ell,t}^{\text{T}}$ ”, i.e., y_t should be $y_{\ell,t}$.

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On page 289, the last line:

$$\ln + \ln \sum_{t=1}^N e^{-0.5\|x_t - Ay_t - c\|^2/\sigma^2} \text{ should be } \ln \sum_{t=1}^N e^{-0.5\|x_t - Ay_t - c\|^2/\sigma^2}.$$

On page 292, the first line of Table 2:

“logistic LMSER” should be “Bernoulli LMSER”.

On page 292, Step 4 of Table 2:

$$\hat{y}_t = Wx_t + d \text{ should be } \hat{y}_t = Wx_t + d.$$

On page 294, Eqs. (44) and (45):

$$\sum_{\tau=1}^N \text{ should be } \sum_{t=1}^N, \text{ i.e., } \tau \text{ should be } t.$$

On page 295, Step 5 in Table 3:

$$\|e_{t,\ell}\|^2 \text{ should be } \|e_{t,\ell}\|.$$

On page 295, Step 6 in Table 3:

$$g_d = D_s(\hat{y}_{\ell,t})(A_\ell e_{t,\ell}^\eta / \sigma_\ell^{\text{new}} + e_{t,\ell}^y) + e_{t,\ell}^s \text{ should be } g_d = D_s(\hat{y}_{\ell,t})(A_\ell e_{t,\ell}^\eta / \sigma_\ell^{\text{new}^2} + e_{t,\ell}^y) + e_{t,\ell}^s.$$

On page 297, the second line in Eq. (52):

$$\tilde{Q}(\xi, \eta, \ell) = Q_0(\xi, \eta, \ell)(p_{h_\xi}(\xi) / p_{h_\xi}(y_\ell | \ell)) \text{ should be}$$

$$Q(\xi, \eta, \ell) = \tilde{Q}(\xi, \eta, \ell)(p_{h_\xi}(\xi) / p_{h_\xi}(y_\ell | \ell)).$$

On page 297, the fifth line in Eq. (52):

$$\approx \ln Q(\xi_t, \eta_t, \ell_t) \text{ should be } \approx \ln \tilde{Q}(\xi_t, \eta_t, \ell_t).$$

On page 297, the last equation:

$$H(p||q) = (1/N) \sum_{t=1}^N \ln Q_B(\xi_t, \eta_t, y_{\ell_t}, \ell_t) \text{ should be}$$

$$H(p||q) = (1/N) \sum_{t=1}^N \ln Q_B(\xi_t, \eta_t, y_{\ell,t}).$$

On page 298, the third line in Eq. (55):

$$r_{t,\ell}^d = q(y_{\ell,t} | \xi_t, \ell_t) / S_{py}(t) \text{ should be } r_{t,\ell}^d = q(y_{\ell,t} | \xi_t, \ell_t) / S_{py}(t).$$

On page 301, item [39]:

“in press” should be “pp. 1231–1237.”

In the bio-sketch:

On the 10th line “1996. Prof. Xu” should be “2002. Prof. Xu”, and on the 17th line, iCONiP’03 should be ICONIP03.