Theoretical Neuroscience:

Computational and Mathematical Modeling of Neural Systems

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Errata

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Page	Location	Error	Scourge
xv	last line of second paragraph	Ketchen Zhang ⇒ Kechen Zhang	
41	eqn 1.43	$s(t) \Rightarrow s(\tau)$ and $\exp(i\omega t) \Rightarrow \exp(i\omega\tau)$	Angela Yu
41	formula 2 lines above margin label *periodogram*	$s(t) \Rightarrow s(m\Delta t)$	Angela Yu
57	eqns 2.13-2.17	Link to an extended discussion.	Alex Loebel
72	eighth line of the caption to fig 2.21	$\alpha = 20\text{ms} \Rightarrow 1/\alpha = 20\text{ms}$	Sune Nørhøj Jespersen
95	8 lines from the end	likelihood ⇒ likelihood ratio	Angela Yu
110	eqn 3.44	had we used the full $P[\mathbf{r}\|s]$ of eqn 3.30, rather than the approximation in eqn 3.31, it would have been apparent that the term $\ldots - f_a''(s)/f_a(s)$ in the sum in eqn 3.44 would cancel *even for asymmetric tuning curves*	Ed Snelson
112	eqn 3.48	both expressions should be *divided* rather than multiplied by D	Ed Snelson
134	eqn 4.29	$p_a[r_a] \Rightarrow p[r_a]$	Tatsuo Okubo
155	4^{th}, 12^{th} lines	Avagadro ⇒ Avogadro	Rafael Yuste
158	12^{th} line	mm ⇒ mm^2	Larry Abbott
170	eqn 5.20	$A_\alpha \exp(-qB_\alpha/k_\text{B}T) \Rightarrow A_\alpha \exp(-qB_\alpha V/k_\text{B}T)$	Jihwan Myung
181	5^{th} line below eqn 5.30	The rise time is $1/(\alpha_s + \beta_s) = 0.9\text{ms}$; we are not employing the approximation of eqn 5.28 that $\alpha_s \gg \beta_s$	Sune Nørhøj Jespersen
187	last paragraph	all instances of r should be r	Tatsuo Okubo
226	eqn 6.45	The symbol A_μ in the equation for D_μ denotes the surface area of compartment μ of the cable, it is not the coefficient denoted by A_μ that appears in the upper left equation and in equation 6.44. Different symbols should have been used for these two quantities.	David Simon
234	5 lines from the top	$\exp(-t/\tau_r)/\tau_r \Rightarrow \exp(-t/\tau_\text{s})/\tau_\text{s}$	Angela Yu
235	eqn 7.6	$\ldots v = F(I_s(t))$	Ming Hang
238	rightmost term in eqn 7.9	$-\mathbf{v} \Rightarrow -v_a$	Geoff Goodhill
296	6^{th} line below eqn 8.22	$N \Rightarrow N_u$	Tatsuo Okubo
296	3^{rd} line below eqn 8.23	matrix ⇒ vector	Tatsuo Okubo
299	2^{nd} line of 3^{rd} paragraph	the ⇒ that	Iain Murray
301	2^{nd} line below eqn 8.27	$\mathbf{v} \Rightarrow v$	Tatsuo Okubo
338	4 lines from the top	stimulus ⇒ reward	Angela Yu
412	eqn A.69	$\tau \int_{z(0)}^{z(t)} dz' \frac{1}{z'} \Rightarrow \int_{z(0)}^{z(t)} dz' \frac{1}{z'}$	Alexander Lerchner