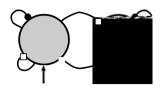
Effects of Time-Dependent Stimuli in a Competitive Neural Network Model of Perceptual Rivalry

Suren Jayasuriya Zachary P. Kilpatrick

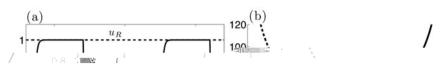
Abstract

| Variation | Variat



$$I(t) = - \frac{t}{T}$$







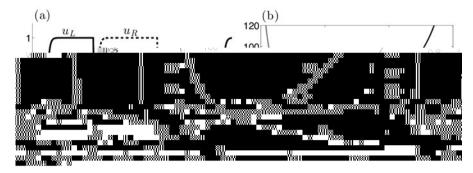
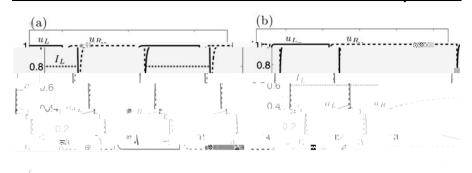
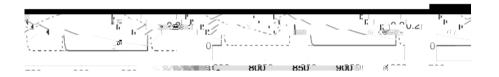


Fig. 6



illi



$$+ I > a_L(t)$$
 $- + I_R < a_R(t)$, t (, T

$$I_L(t) = \bigwedge_{t=0}^{\infty} \left(\frac{1}{t} + \frac{1}{t} +$$

$$I_R > a_R(T_I) = a_R(\cdot)e^{-T_I/\cdot}$$
 .

rate of the table

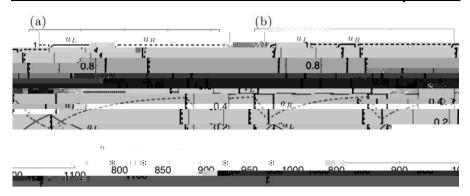


Fig. 8 $\frac{1}{2}$ $\frac{1}{2}$

5 Time-Variation in Both Inputs

" O = " O =

$$a_{j}\left(\ \right)=a_{j}\left(\ T_{I}
ight)=rac{1}{1+\left.e^{T_{I}/r}
ight)}$$
 $a_{j}\left(T_{I}
ight)=rac{1}{1+\left.e^{-T_{I}/r}
ight)},$ $j=L,R.$

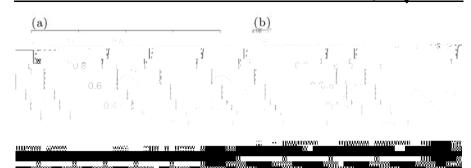


$$\begin{pmatrix} \Gamma \end{pmatrix} + \Gamma \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \begin{pmatrix} \Gamma \end{pmatrix} \end{pmatrix}$$

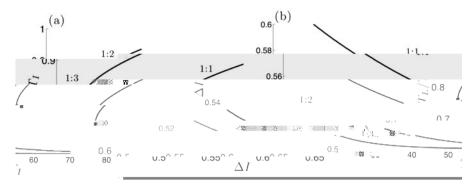
Fig. 11

$$I > rac{e^{-\ T_I/}\ (\ -e^{-T_I/}\ +e^{-\ T_I/}\)}{rac{+\ -\ -\ I}{-\ +\ I} +e^{-\ T_I/}},$$

$$- + I > \frac{\frac{+ - I}{- + I} (e^{-T_I/} - e^{-T_I/}) + e^{-T_I/}}{\frac{+ - I}{- + I} + e^{-T_I/}},$$



$$I_L$$
 I_L I_L



 $T_{I} = 0 \quad \text{and} \quad T_{I} = 0 \quad T$

$$T_R = \frac{1}{2} \int_{\mathbb{R}^n} \left(\int_{\mathbb{R}^n} \left($$

$$rac{I}{T} - rac{T}{T_{I}} = rac{e^{(-T_{I} + T_{L} + T_{U})/} - e^{-T_{I}/}}{-e^{-T_{I}/}},$$
 $rac{I}{T_{I}} = rac{(T_{L} - T_{I})}{T_{I}} + - = rac{e^{(-T_{I} + T_{R} + T_{U})/} - e^{-T_{I}/}}{-e^{-T_{I}/}},$
 $rac{I}{T_{U} + T_{U}} = rac{e^{(-T_{I} + T_{R} + T_{U})/} - e^{-T_{I}/}}{-e^{-T_{I}/}},$

thum of 0, or 1, while 1, while 0, 0, the wood the word of the wor