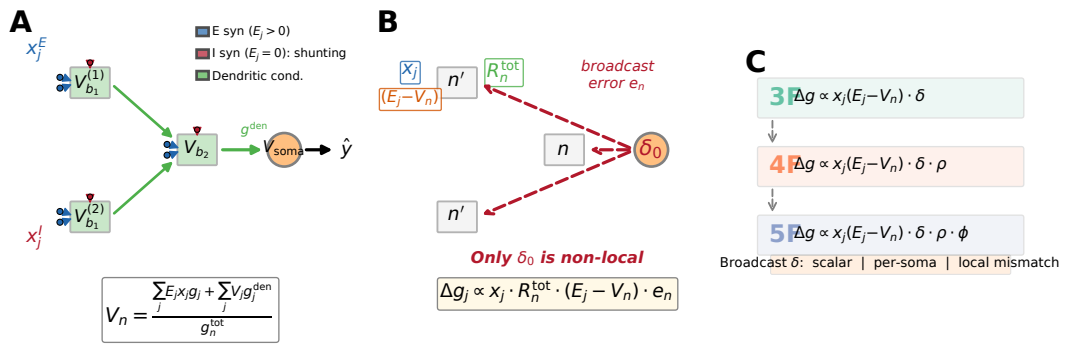
A
E syn ($E_j > 0$)
I syn ($E_j = 0$): shunting
Dendritic cond.
x_j^E
$V_{b_1}^{(1)}$
V_{b_2}
g^{den}
V_{soma}
$\hat{y}$
$V_{b_1}^{(2)}$
x_j^I
$V_n = \frac{\sum_j E_j x_j g_j + \sum_j V_j g_j^{\text{den}}}{g_n^{\text{tot}}}$
B
x_j
$(E_j - V_n)$
n'
R_n^{tot}
broadcast error e_n
n
δ_0
n'
Only δ_0 is non-local
$\Delta g_j \propto x_j \cdot R_n^{\text{tot}} \cdot (E_j - V_n) \cdot e_n$
C
3F $\Delta g \propto x_j(E_j - V_n) \cdot \delta$
4F $\Delta g \propto x_j(E_j - V_n) \cdot \delta \cdot \rho$
5F $\Delta g \propto x_j(E_j - V_n) \cdot \delta \cdot \rho \cdot \phi$
Broadcast δ: scalar | per-soma | local mismatch