Pearce-Hall model equations:

$$\alpha_i^{n+1} = \left| \lambda_j^n - \sum_i V_i^n \right| \tag{1}$$

$$\Delta V_{i,j}^{n+1} = S_i \cdot \alpha_i^n \cdot \left| \lambda_j^n \right| \tag{2}$$

$$V_{i,j}^{n+1} = V_i^n + \Delta V_i^n \tag{3}$$

α_i^{n+1} = associability of the CS i on trial $n+1$.

λ = intensity of the US.

$V_{i,j}^{n+1}$ = associative strength of the CS i on trial $n+1$.

S_i = salience of the stimulus.