

$$x_i = [x_i^1, x_i^2, ..., x_i^N]x_i^j$$

$$P = \frac{\sum_i \|x_i^1, x_i^2, ..., x_i^{T_{p0}}\|_2}{\sum_i \|x_i\|_2}$$

$$\begin{array}{l} (1) \quad \begin{array}{l} ?? \\ T_{p0} \\ T_{p0} \\ ?? \\ ? \\ F = \\ \{F^1, F^2, \dots, F^{10}\} F^i \in \\ R^{N_c \times S_b} N_c S_b F^i C \in \\ R^{N_c \times N_c} ?? \\ CV = \frac{\sigma}{\mu} \end{array} \end{array}$$

$$\begin{array}{l} (2) \quad \begin{array}{l} \sigma \\ \mu \sigma \mu F^i CV \in \\ R^{N_c \times N_c} C CV ?? N_c \times \\ N_c CV \\ i_{th} \\ j_{th} \\ CV_{i_{th}} \\ CV_{i_{th}} \\ j_{th} \\ ?? \\ S_b \end{array} \\ \text{a.]Preprocessing} \\ \text{Discrete} \\ \text{Co-} \\ \text{sine} \\ \text{Trans-} \\ \text{for-} \\ \text{ma-} \\ \text{tionD-} \\ \text{CT-} \\ \text{spike} \\ \text{firingDCTHigh-} \\ \text{Amplitude-} \\ \text{Component,HACL} \\ \text{Low-} \\ \text{Amplitude-} \\ \text{Component,LACHACLFLAC} \\ \text{firing} \\ \text{rate[?]} 2007[?] \text{LFPspikeLFPspikeHACLACLACDCT1bit} \\ ? \\ l_i \end{array}$$

$$symbol(l_i) = \left\{ \begin{array}{l} -1, -T_{LH} < l_i \leq 0 \\ 1, 0 < l_i < T_{LH} \end{array} \right.$$

$$\begin{array}{l} (3) \quad T_{LH} ?? S_l S_l \\ S_b \\ QT \in \\ R^{N_c \times S_b} N_c S_b H_c^Q \end{array}$$

$$\begin{array}{l} (4) \quad H_c^Q = round(H_c./QT(c,:)), \\ round(x)H_cT_{LH}QT(c,: \\)T_{LH} \\ T_{LH} ? \\ \frac{1}{2}T_{LH} ?? \\ BBBBBB \\ ?? \\ \begin{bmatrix} -Z, Z \\ -Z, Z \end{bmatrix} ZBBBB \\ \begin{bmatrix} -Z, Z \\ -Z, Z \end{bmatrix} B N_c ?? B ?? \\ k_z k_z = \\ (8A+ \\ B) \times \\ 8+ \\ C A \\ B \\ C \\ HC- \\ T \\ g(k) \end{array}$$

$$\begin{array}{l} z) = \\ \left\{ \begin{array}{l} 1, k_z \in [0, 7] \\ 2, k_z \in [8, 7 \times 8 + 7] \\ \vdots \end{array} \right. \end{array}$$