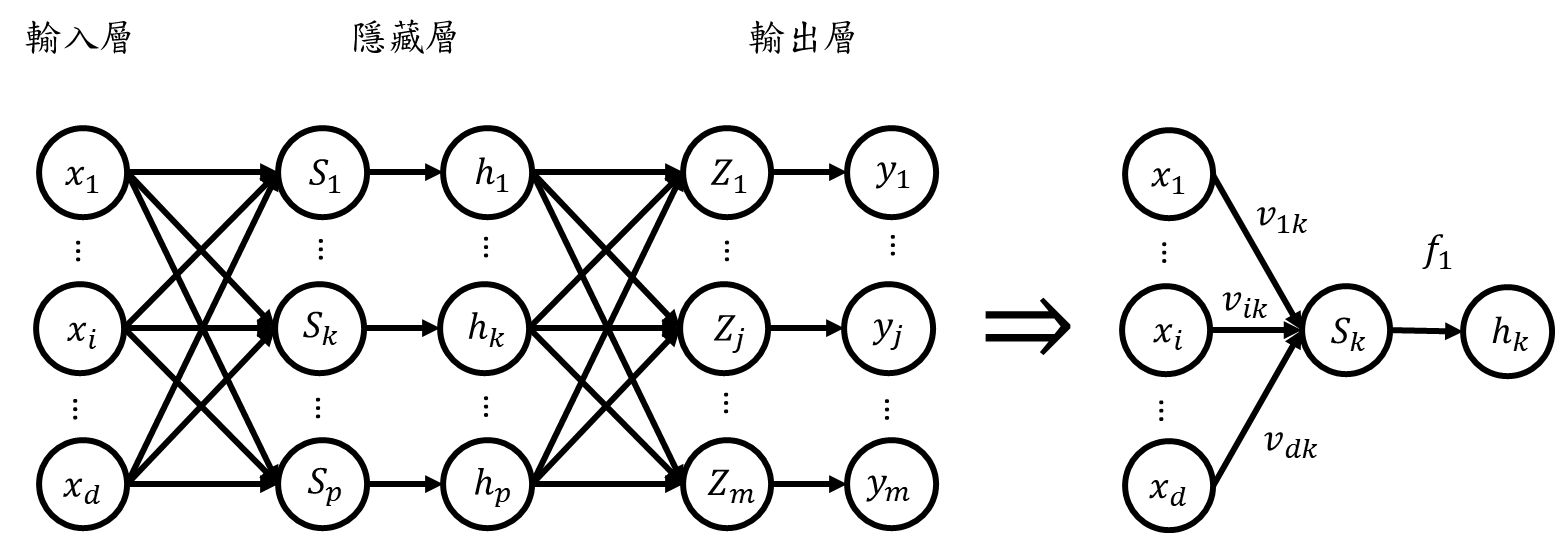
HW2

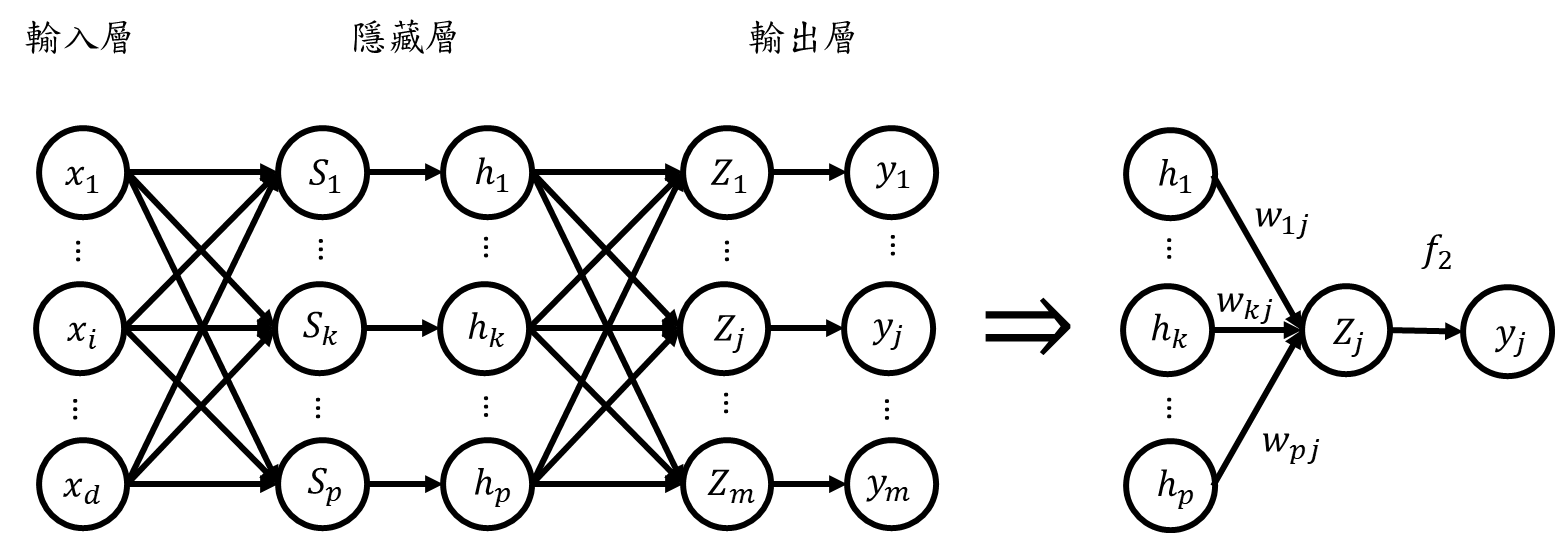
1. derivation of optimal W for a binary SVM
2. derivation of optimal W's for a 3-layer MLP
3. define a loss-function for SVM

**derivation of optimal W for a binary SVM**

**derivation of optimal W's for a 3-layer MLP**

前向傳遞(Forward propagation)：





**define a loss-function for SVM**

用來評估模型的預測值與真實值不一致的程度，也是神經網絡中優化的目標函數，神經網絡訓練或者優化的過程就是最小化損失函數的過程，損失函數越小，說明模型的預測值就越接近真實值，模型的健壯性也就越好。

Hinge Loss function：