Cost when stop training should less than 0.005(=1/2\*err(0.1)^2) for 1 consecutive second (it capture minimum frequency of 1 Hz)

Error magnitude is averaged to calculate the performance (batch Size: 4000 samples.)

**Comparison of NNT vs RBNN\_without\_feedback:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Training Signal | Type | Structure | Training Time | Training error | Avg error(0) | Avg error(1) | Avg\_error(2) | Avg error(3) |
| 0\_0.5K | RBNN | 32(layer 1) |  |  |  |  |  |  |
| NNT | 32(layer 1) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1. Can we get certain training accuracy? Ex: 0.005
2. How much time it takes to reach the accuracy, where both can reach ?
3. How it is doing on other signals?

NNT vs RBNN\_with\_feedback

RBNN\_with/without feedback

RBNN\_O and association vs NNT and association: