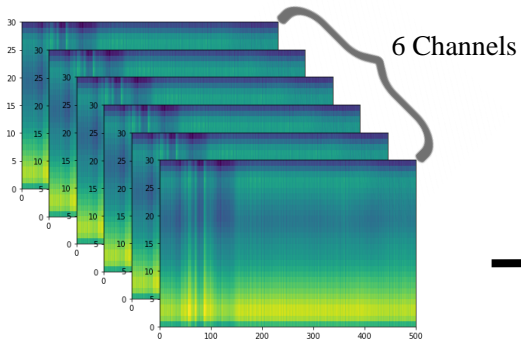


Wi-Fi CSI Signals
Collected 2000 samples

1000 samples for
Training



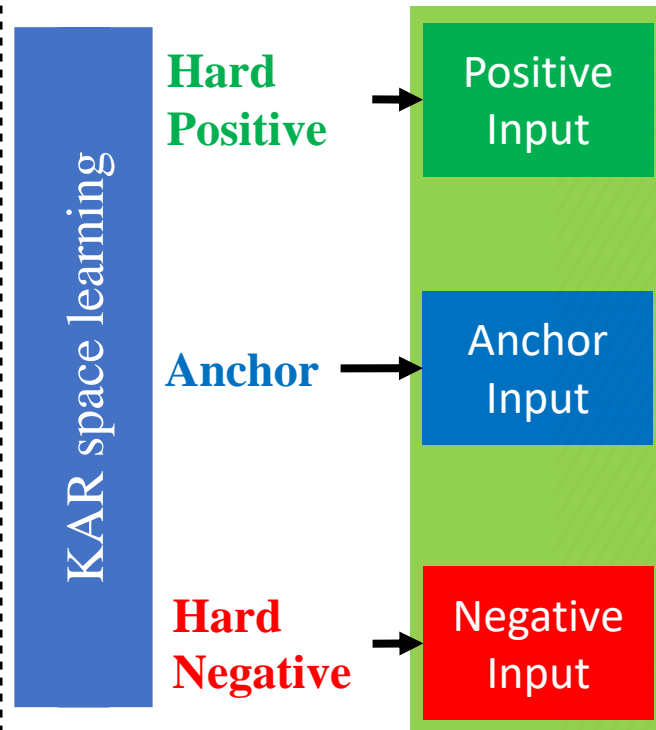
Sample Size:
 $500 \times 30 \times 6$

- 500 packets
- 30 subcarriers
- 6 channels

Mining Triplet Input

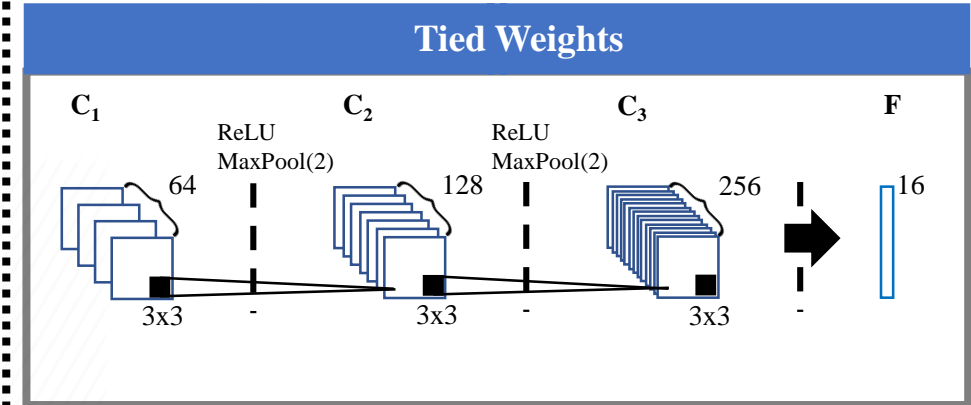
(a) Triplet Mining

Selects Hard Positives /
Hard Negatives by KAR learning



Triplet Network

(b) ConvNet Structure



(c) Triplet Loss

