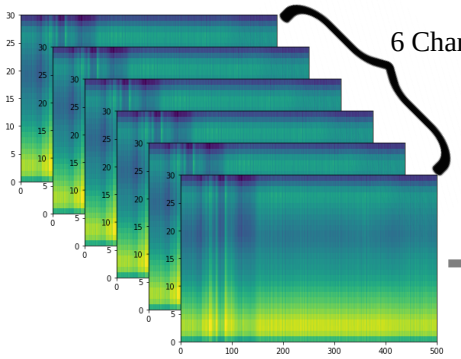
(a) Select Training sample

Selects Hard positive /
Hard Negative by KAR learning

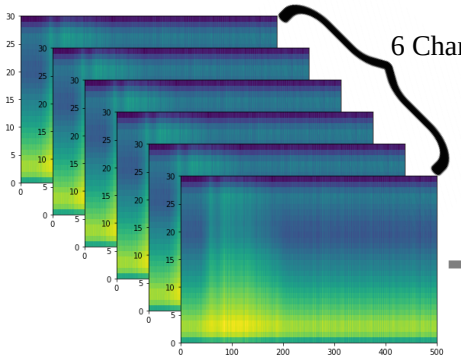


6 Channels

1000 samples for Training

Wi-Fi CSI signals Collected from 50 people x 4 direction x 10 exp = 2000 samples

1000 samples for Validation



6 Channels

KAR space learning

Hard Positive

Anchor

Hard Negative

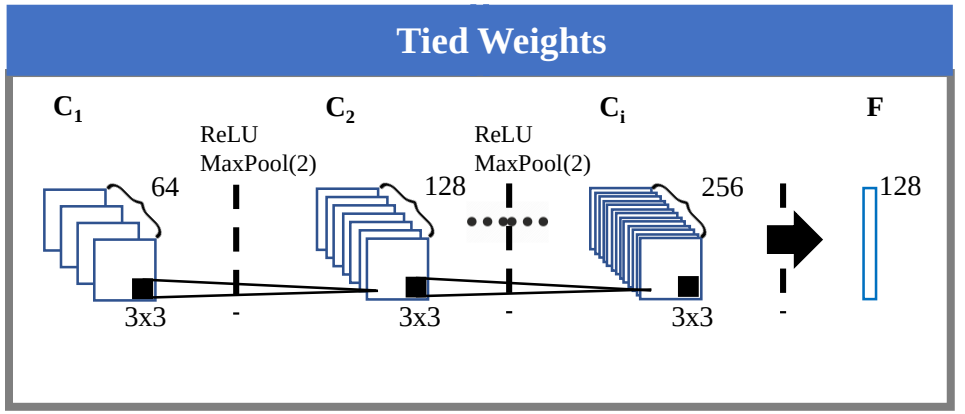
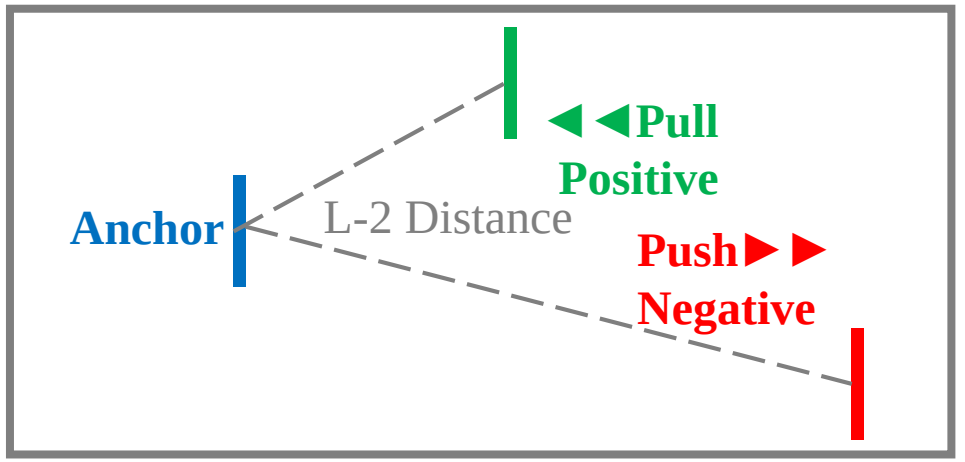
Positive Input

Anchor Input

Negative Input

(c) CNN with Triplet loss

(b) ConvNet Structure



(d) Triplet Loss