PreProcessing Feature Extractor WIFI CSI signals Collected from 50 people x 4 direction x 10 exp Conv1 Conv2 Conv3 FC ReLU ReLU Max Pool (2) Max Pool (2) Feature Matcher 3x3 64 128 Output 256 1024 {1,0} Distance Conv2 Conv3 FC Conv1 ReLU ReLU Max Pool (2) Max Pool (2) 64 128 3x3 256 1024