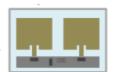
Design





Uplink communication - from tag to reader

- Step 3: decode the bits
 - Pretty simple, bit = (CSI_normed_weighted >= 0) ? 1:0
- Some added schemes:
 - Use multiple WiFi channel for redundancy and using majority vote to figure out the bits
 - Use timestamp to cluster packets that stands for the same bit
 - Hysteresis thresholds design for CSI variance

Evaluation Uplink

• Relationship between: BER & distance, BER & pkts/bit

