

Enhanced Model
(CNN + SE + Temporal
Attention)



Parameterized Synthesis
(Scenario + Channel
Control)



Physics Modeling
(Multipath, Human,
Environment)



Preprocessing
(Sync, Denoise,
Normalization)



Data Acquisition
(Raw CSI
Streams)



Physics-Guided Sim2Real Framework (2D)

Enhanced Model (Rough Diagram)

