

SISO Transmit-Receive Chain with OFDM, Channel Fading, Channel Estimation, and Equalization

## Instructions:

- Run `main_E2E.m` to generate the curves shown in the report.
- Use `SISO_E2E.m` to explore the overall system in a non-function format. That is, manually set the input bit length, snr, channel type, bandwidth, modulation type, equalization type, maximum iterations of the turbo decoder, and number of DCI columns. Simulation runs over as many sub frames as necessary to process all the bits. To see the simulation over only one particular sub frame number, manually change the slot number in the while loop and input a short input bit length.
- `SISO_E2Efun.m` is the same thing as `SISO_E2E.m`, just in function format.

It is recommended to first look through `SISO_E2E.m`.