All the Matlab code is just for reference, so that readers can understand the algorithms used in our papers. Install the MOSEK tool before running the supplied code.

File folder " 2020TSP " contains the Matlab code of the "WORST-CASE ROBUST BEAMFORMING DESIGN" in Journal "TSP2020-A Framework of Robust Transmission Design for IRS-aided MISO communications with imperfect cascaded channels". Since the Matlab code of the "OUTAGE CONSTRAINED ROBUST BEAMFORMING DESIGN" in TSP2020 is not in hand, we recommend the following two pieces of code for interested readers.

1. File folder "Globecom2020" is the Matlab code of the Conference "Globecom2020-Outage Constrained Transmission Design for IRS-aided Communications with Imperfect Cascaded Channels". The only difference between Globecom2020 and TSP2020 is that the passive beamforming e is designed by using **SDR method** in Globecom2020 and by using **PCCP method** in 2020TSP.
2. File folder "WCL2020" is the Matlab code of the Journal "WCL2020-Robust Beamforming Design for Intelligent Reflecting Surface aided MISO communication systems". In WCL2020, the passive beamforming e is designed by using **PCCP method**.