**Description:**

MATLAB codesthat can generate simulation results and figures shown in the following paper (with two additional sparse arrays):

[1] W. Shi, S. A. Vorobyov and Y. Li “ULA Fitting for Sparse Array Design,” *IEEE Trans. Signal Process*., vol. 69, no. 21, pp. 6431–6447, Nov. 2021.

**Player Information:**

To run the codes one needs **MATLAB**.

**Packing List:** List of M-Files

|  |  |
| --- | --- |
| plot\_coupling\_leakage.m | MATLAB code for plotting the coupling leakage for sparse arrays. |
| uDOF\_and\_spatial\_effciency.m | MATLAB code for plotting uDOF and spatial efficiency. |
| Plot\_target.m | MATLAB code for plotting target identification results . |
| ULAfitting\_ANGLE\_RESOLUTION.m | MATLAB code for plotting the angle resolution (this is a function, the users should input parameters themselves). |
| ULAfitting\_RMSE.m | MATLAB code for plotting the RMSE performance versus SNR (this is a function, the users should input parameters themselves). |
| UF\_design\_example.m | MATLAB code example for designing sparse arrays using ULA fitting scheme. |