



subprocedures

DoAE: direction of arrival estimation
 UID : user identification
 DoAT: DoA tracking
 BF : beam forming
 SF : spatial filtering

variables

DoA : direction of arrival
 \mathbf{i} : identification sequence
 \mathbf{X}, \mathbf{x} : signal model
 DoA_T : DoAs up to date
 $\hat{x}(t)$: fitered signal