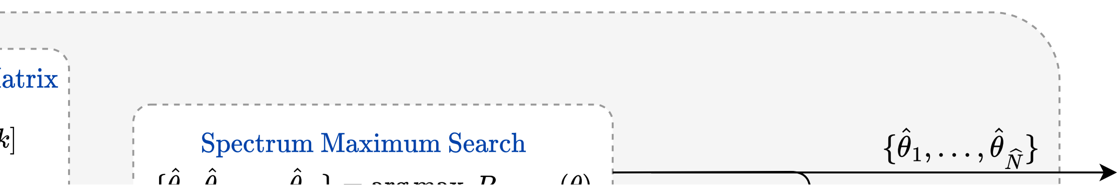
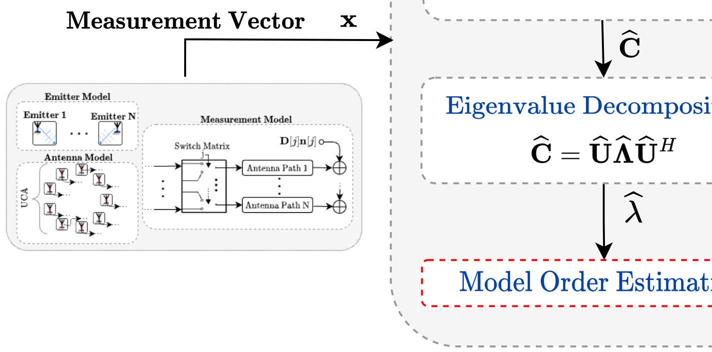
Estimate Covariance M

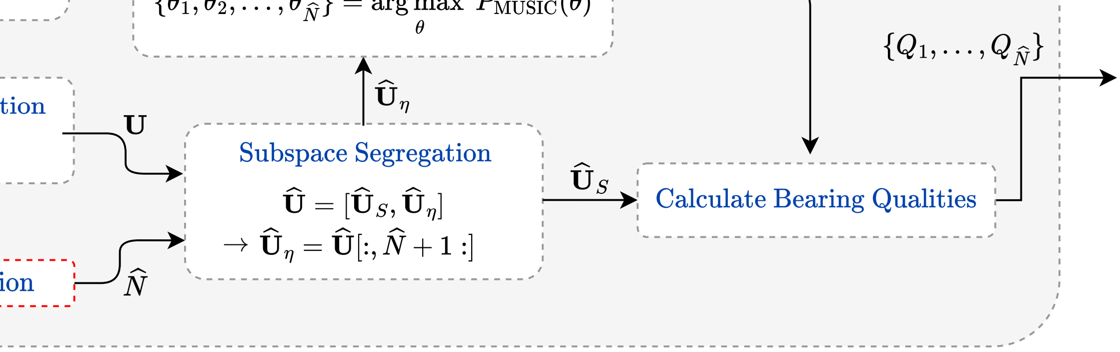
$$\widehat{\mathbf{C}} = \frac{1}{K}\sum_{k=1}^{K}\mathbf{x}[k]\mathbf{x}^{H}[$$



atrix
Spectrum Maximum Search
$\{\hat{\theta}_1, \ldots, \hat{\theta}_{\widehat{N}}\}$



Measurement Vector
$\mathbf{x}$
$\widehat{\mathbf{C}}$
Eigenvalue Decomposi
$\widehat{\mathbf{C}} = \widehat{\mathbf{U}}\widehat{\mathbf{\Lambda}}\widehat{\mathbf{U}}^H$
$\widehat{\lambda}$
Model Order Estimat
Emitter Model
Emitter 1
Emitter N
Antenna Model
UCA
Measurement Model
Switch Matrix
Antenna Path 1
Antenna Path N



$\{\theta_1, \theta_2, \ldots, \theta_{\widehat{N}}\} = \arg\max_{\theta} P_{\mathrm{MUSIC}}(\theta)$
$\{Q_1, \ldots, Q_{\widehat{N}}\}$
tion
$\mathbf{U}$
$\widehat{\mathbf{U}}_\eta$
Subspace Segregation
$\widehat{\mathbf{U}} = [\widehat{\mathbf{U}}_S, \widehat{\mathbf{U}}_\eta]$
$\rightarrow \widehat{\mathbf{U}}_\eta = \widehat{\mathbf{U}}[:, \widehat{N}+1:]$
$\widehat{\mathbf{U}}_S$
Calculate Bearing Qualities
ion
$\widehat{N}$