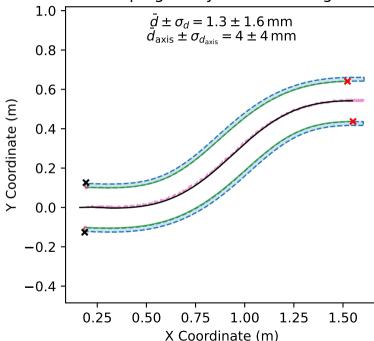
Navigation and Contour Estimation of Smooth Tunnel With Swiping Policy and Tunneling Policy 1.0 -



Estimated Contour $C_{\text{est}} = \{ \mathbf{y}_i \}_{i=1}^{N}$ $d_i = \|\mathbf{x}_i - \mathbf{y}_i\|$ for $|d_i - \bar{d}| \leq \sigma_d$ for $|d_i - \bar{d}| > \sigma_d$ Tunnel Axis

Reference Contour

 $C_{\text{ref}} = \{ \mathbf{x}_i \}_{i=1}^{N}$

Entry Point Exit Point

×

 $C_{\text{axis}} = \{ \mathbf{a}_i \}_{i=1}^{N}$

 $C_{pl} = \{ \mathbf{p}_i \}_{i=1}^{N}$ $d_{axis,i} = \|\mathbf{p}_i - \mathbf{a}_i\|$

Platform Trajectory