

C_k	the k -th cluster
\mathbf{x}	the position in canonical frame for a node of cluster C_k
\mathbf{y}^t	the position in live frame t for a node in cluster C_k
\mathbf{c}_k	the centroid position of cluster C_k in canonical frame
\mathbf{c}_k^t	the centroid position of cluster C_k in live frame t
n_k	the number of nodes belonging to cluster C_k in canonical frame
$\mathbf{A}^t(C_k)$	the cross covariance matrix of cluster C_k
(R_k^t, \mathbf{t}_k^t)	rotation and translation of cluster C_k
(R^*, \mathbf{t}^*)	optimal rotation and translation of cluster C_k
σ_{kq}	the q -th singular value of $\mathbf{A}^t(C_k)$