

Corrigenda

Yusuke MAEDA and Satoshi MAKITA:

A Quantitative Test for the Robustness of Graspless Manipulation,
Proc. of 2006 IEEE Int. Conf. on Robotics and Automation (ICRA 2006),
pp. 1743–1748, 2006.

- Equation (22)
(error)

$$z = \min_{\mathbf{Q}_{\text{dist}}} \max_{\mathbf{k}} \|\mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k}\|_{\mathbf{R}} \quad (22)$$

$$\text{subject to } \begin{cases} \mathbf{T}^T \mathbf{C}\mathbf{k} \in \mathcal{F} \\ \mathbf{A}(\mathbf{N}^T \mathbf{C}\mathbf{k} - \mathbf{f}_n) = \mathbf{0} \\ \mathbf{Q}_{\text{dist}} + \mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k} = \mathbf{0} \\ \|\mathbf{Q}_{\text{dist}}\|_{\mathbf{R}} = 1 \\ \mathbf{k} \geq \mathbf{0}. \end{cases}$$

(corrected)

$$z = \min_{\hat{\mathbf{Q}}_{\text{dist}}} \max_{\zeta, \mathbf{k}} \|\mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k}\|_{\mathbf{R}} \quad (22)$$

$$\text{subject to } \begin{cases} \mathbf{T}^T \mathbf{C}\mathbf{k} \in \mathcal{F} \\ \mathbf{A}(\mathbf{N}^T \mathbf{C}\mathbf{k} - \mathbf{f}_n) = \mathbf{0} \\ \zeta \hat{\mathbf{Q}}_{\text{dist}} + \mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k} = \mathbf{0} \\ \|\hat{\mathbf{Q}}_{\text{dist}}\|_{\mathbf{R}} = 1 \\ \mathbf{k} \geq \mathbf{0}. \end{cases}$$

- Equation (32)
(error)

$$z = \min_{\mathbf{Q}_{\text{dist}}} \max_{\mathbf{k}, \mathbf{B}, \mathbf{S}} \|\mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k}\|_{\mathbf{R}} \quad (32)$$

$$\text{subject to } \begin{cases} \mathbf{S}\mathbf{T}^T \mathbf{C}\mathbf{k} \leq \mathbf{0} \\ \mathbf{T}^T (\mathbf{I}_{3M} - \mathbf{B} - \mathbf{D})\mathbf{C}\mathbf{k} = \mathbf{0} \\ \mathbf{A}(\mathbf{N}^T \mathbf{C}\mathbf{k} - \mathbf{f}_n) = \mathbf{0} \\ \mathbf{Q}_{\text{dist}} + \mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k} = \mathbf{0} \\ \|\mathbf{Q}_{\text{dist}}\|_{\mathbf{R}} = 1 \\ \mathbf{k} \geq \mathbf{0}. \end{cases}$$

(corrected)

$$z = \min_{\hat{Q}_{\text{dist}}} \max_{\zeta, \mathbf{k}, \mathbf{B}, \mathbf{S}} \|\mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k}\|_{\mathbf{R}} \quad (32)$$

subject to

$$\begin{cases} \mathbf{S}\mathbf{T}^T\mathbf{C}\mathbf{k} \leq \mathbf{0} \\ \mathbf{T}^T(\mathbf{I}_{3M} - \mathbf{B} - \mathbf{D})\mathbf{C}\mathbf{k} = \mathbf{0} \\ \mathbf{A}(\mathbf{N}^T\mathbf{C}\mathbf{k} - \mathbf{f}_n) = \mathbf{0} \\ \zeta \hat{Q}_{\text{dist}} + \mathbf{Q}_{\text{known}} + \mathbf{W}\mathbf{C}\mathbf{k} = \mathbf{0} \\ \|\hat{Q}_{\text{dist}}\|_{\mathbf{R}} = 1 \\ \mathbf{k} \geq \mathbf{0}. \end{cases}$$