

Table 10: *DWB critics and values*

Critic	Value
C_{BO}	$\beta = 0.08$
C_O	$\beta = 30.0$
C_{PA}	$\beta = 30.0$
C_{PA}	$d_{point} = 0.1$
C_{GA}	$\beta = 35.0$
C_{GAlign}	$d_{point} = 0.1$
C_{PD}	$\beta = 30.0$
C_{GD}	$\beta = 5.0$

Table 11: *DWB parameters and values*

Parameter	Value
N_x	20
N_θ	40
t_{sim}	1.5 s
d_{prune}	0.9 s

Table 12: *MPPI Critics and Values*

Critic	Value
P_{Align}	$\gamma = 14.0$
P_{Angle}	$\gamma = 4.0$
P_{Follow}	$\gamma = 10.0$
C_{cost}	$\gamma = 6.0$
C_{cons}	$\gamma = 4.0$
G_{Align}	$\gamma = 6.0$
G_{cr}	$\gamma = 6.0$
d_{thres} (For All Critics)	1.0 m

Table 13: *MPPI Parameters and Values*

Parameter	Value
$t_{sampling}$	0.05 s
N_{steps}	60
d_{prune}	1.6 m
N_{batch}	2000

Table 14: *RPP tuned parameters*

Parameter	Value
d_L	0.5
d_{prox}	0.6
α	0.4
B_{coll}	true
t_{carrot}	1.0
H_{curv}	true
H_{prox}	true
r_{min}	0.7
V_{reg}	0.25
$B_{Heading}$	true
A_{thres}	0.785