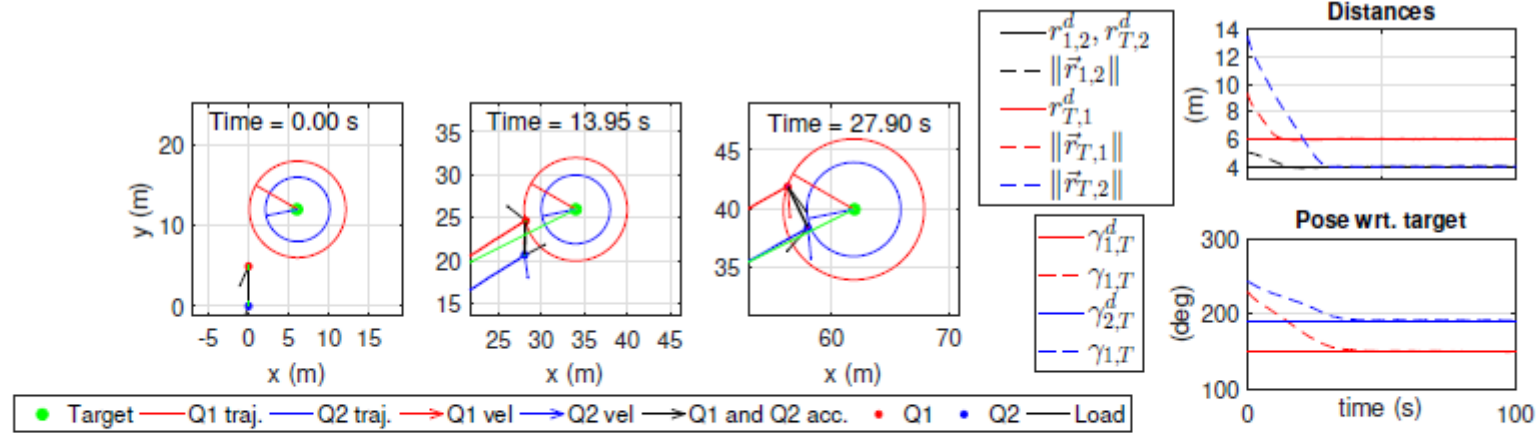


(a)



(b)

**Fig. 17** Moving target; Quadrotor system performance; With wind and noise;  $K_P = 0.3, K_{P_r} = 0.1, K_D = 0.9, K_{D_\alpha} = K_{D_{r_\alpha}} = 0.2, K_{P_\alpha} = 0.3$ ; Control: (a) 7.5, Table 7;  $K_{D_r} = 0$ , (b) 7.6, Table 7;  $K_{D_r} = 0.5$ .