





Measured and estimated steering rate Reference $\phi_r(t)$ Steering angle (rad) Steering rate $\phi(t)$ Simulated $\phi_{sim}(t)$ Estimated $\hat{\phi}(t)$ 0 10 Time (s)

Steering angle error weight Strong action Estimated (human) $\hat{Q}_{h,1}(t)$ 30 Virtual (human) $Q_{h, 1, vir}(t)$ 20 Weak action Weight value 10 No interaction **No**interaction 0 No interaction -10 Counteracting steering -20-3010 20 30 40 50 60 70 80 Time (s)





