TABLE I
COMPARISON OF EQUAL REACHING LAW AND NOVEL REACHING LAW

Descriptions	Equal reaching law	Novel reaching law
reaching law	$\dot{s} = -k_1 \cdot sgn(s)$	$\dot{s} = -eq(x_1, s)sgn(s)$ $eq(x_1, s) = \frac{k}{\epsilon + (1 + \frac{1}{\lvert x_1 \rvert} - \epsilon)e^{-\delta \lvert s \rvert}}$
a faster reaching time	k_1	$\frac{k}{\epsilon}$
chattering		$eq(x_1, s)$ gradually decreases to zero to suppress the chattering
reaching time t	$t_1 = \frac{\lvert s(0) \rvert}{k_1}$	$t < \frac{\epsilon \lvert s(0) \rvert}{k}$
reduce the chattering of SMC	none	$k < \epsilon k_1$
bandwidth	$\Delta = k_1 T$	$\Delta \approx \frac{k \lvert x_1 \rvert T}{1 + \lvert x_1 \rvert}$

Response to Reviewers