

# Nonsmooth and Constrained Dynamical Systems: Stability, Estimation, and Control – Preview

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# Systems with Constraints

“System behavior”

$\mathcal{S} : \mathbb{R}_+ \rightrightarrows \mathbb{R}^n$ ;  $\mathcal{S}(t)$  closed.

$$\dot{x}(t) = f(t, x(t)), \quad x(t) \in \text{int } \mathcal{S}(t),$$

$$x(t) \in \mathcal{S}(t), \quad \forall t \geq 0.$$

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