

List of Symbols

\mathbb{R}	Set of Real Numbers
\mathbb{N}	Set of Positive Integers
h	Sampling Time
α, β	Fractional Orders
$\Gamma(\cdot)$	Gamma Function
$E_\alpha(\cdot)$	One-Parameter <i>Mittag-Leffler</i> Function
$E_{\alpha,\beta}(\cdot)$	Two-Parameter <i>Mittag-Leffler</i> Function
$H^\beta(\cdot)$	Class of <i>Hölder</i> Functions of Order β
${}_{t_0}I_t^\alpha$	Fractional-Order Intergal of Order α
${}^{RL}D_t^\alpha$	<i>Riemann-Liouville (R-L)</i> Fractional-Order Derivative of Order α
${}^cD_t^\alpha$	<i>Caputo's</i> Fractional-Order Derivative of Order α
$\text{sgn}(\cdot)$	Set-valued Signum Function
$\text{sign}(\cdot)$	Single-valued Signum Function
$\text{proj}(\cdot)$	Projection Function
x	State Variable of System
\hat{x}	Estimated State Variable of System
u	Control Input of System
x_r	Reference Function
e	Error Variable
s	Sliding Surface
T	Finite Time