ABBREVIATIONS

$\mathbb{R}^n$ An Euclidean space with a convenient norm $\| \cdot \|$

$\exists$ There exists

$\forall$ For all

$x \in A$ $x$ is an element of $A$

$A \subseteq B$ $A$ is a subset of $B$

$\cap$ Intersection of a sets

$\cup$ Union of sets

$\mathbb{R}$ Real number

$\bar{A}$ The closure of set $A$

$I$, $I_0$ Closed and bounded interval

$J_0$, $J_1$ Closed and bounded interval

$FRDE$ Functional random differential equation

$\| \cdot \|_c$ Supremum norm

$C(I_0, \mathbb{R}^n)$ denote the space of all continuous $\mathbb{R}^n$-Valued functions on $I_0$ equipped with supremum norm $\| \cdot \|_c$

$(\Omega, A)$ a measurable space

$a. e.$ Almost everywhere

$C(I_0, \mathbb{R})$ The space of all continuous $\mathbb{R}$-valued function

$C$ Banach space with this supremum norm

$AC(I, \mathbb{R})$ Space of all absolutely continuous real-valued function.

$\beta_X$ The $\sigma$-algebra of all Boral subsets of $X$.

$BM(J, \mathbb{R})$ Spaces of all bounded and measurable real-valued function.