
On the Convex and Non-convex Sweeping Processes: Differential Inclusions associated with Normal cone of Moving set

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The goal of this talk is to present some concepts of the field of nonsmooth and variational analysis. We shall begin with the differential inclusion associated with the normal cone of moving convex set $C(t)$ known as Convex Sweeping Process. An existence result of this problem will be given. In the second part, we present the nonconvex sweeping process associated with the normal cone of moving non-convex prox-regular set and some existence results.