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*Evolution inclusions of the subdifferential type depending on
a parameter*

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Abstract: In this paper we study evolution inclusions generated by time dependent convex subdifferentials, with the orientor field F depending on a parameter. Under reasonable hypotheses on the data, we show that the solution set $S(\lambda)$ is both Vietoris and Hausdorff metric continuous in $\lambda \in \Lambda$. Using these results, we study the variational stability of a class of nonlinear parabolic optimal control problems.

Keywords: subdifferential, compact type, Vietoris topology, Hausdorff metric, parabolic optimal control problem

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