DELAY PERTURBED EVOLUTION PROBLEMS INVOLVING TIME DEPENDENT SUBDIFFERENTIAL OPERATORS

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Abstract

We investigate in the present paper, the existence and uniqueness of solutions for functional differential inclusions involving a subdifferential operator in the infinite dimensional setting. The perturbation which contains the delay is single-valued, separately measurable, and separately Lipschitz. We prove, without any compactness condition, that the problem has one and only one solution.

Keywords: Differential inclusions, subdifferential operator, Lipschitz functions, set-valued map, delay, perturbation, absolutely continuous map.

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References


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