FIXED POINT THEOREMS WITH PPF DEPENDENCE AND FUNCTIONAL DIFFERENTIAL EQUATIONS

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Abstract. In this paper, some fixed point theorems with PPF dependence in Banach spaces are proved and then applied to functional differential equations of delay type for proving the existence of solutions. Our results generalizes the fixed point theorems with PPF dependence of Bernfield *et al.* [1] under weaker conditions.

Key Words and Phrases: fixed point theorem, PPF dependence, Banach space, functional differential equations.

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