

**IMPULSIVE CONTROL IN FUZZY NEUTRAL SECOND-ORDER
FUNCTIONAL DIFFERENTIAL EQUATIONS**

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Abstract: This paper investigates the controllability of impulsive second-order neutral fuzzy functional differential systems with delay. Using the Banach fixed-point theorem and the framework of fuzzy numbers represented through their α -level sets, we derive sufficient conditions for controllability and for the existence and uniqueness of fuzzy mild solutions. An explicit admissible control is constructed