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**Sur l'intervalle maximal d'existence de solutions pour des inclusions différentielles. (On the maximal interval for the existence of solutions to differential inclusions).** (French)

Zbl 0643.34015

C. R. Acad. Sci., Paris, Sér. I 306, No. 18, 747-750 (1988).

We establish the existence of a global solution for differential inclusions of the form  $u'(t) \in F(t, u(t))$  a.e. in  $[0, T]$ ,  $u(0) = r$ , under the suitable conditions on  $F : [0, T] \times \mathbb{R}^n \rightarrow 2^{\mathbb{R}^n}$ ; in the case where  $F$  is single-valued and continuous, one recovers a well-known result of Wintner [*J. Duguridji* and *A. Granas*, Fixed point theory, Vol. I. (1982; Zbl 0483.47038)].

**MSC:**

**34A60** Ordinary differential inclusions

Cited in **1** Review  
Cited in **4** Documents

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global solution