

**Subbotina, N. N.****Universal optimal strategies in positional differential games.** (English. Russian original)[Zbl 0543.90104](#)[Differ. Equations 19, 1377-1382 \(1983\)](#); translation from [Differ. Uravn. 19, No. 11, 1890-1896 \(1983\)](#).

In a monograph by *N. N. Krasovskij* and *A. I. Subbotin* ["Positional differential games" (1974; [Zbl 0298.90067](#))] a formalization of positional (usual) strategies was proposed and for any fixed initial state the existence of an equilibrium situation for these strategies was proved. A strategy is called universal if it is optimal (i.e. equilibrium) for all initial states in a given region. *N. N. Krasovskij* [[Math. USSR, Sb. 35, 795-822 \(1979\)](#); [Zbl 0439.90114](#)] introduced a new notion of positional (generalized) strategy and proved the existence of a universal generalized strategy. However, it was an open problem whether there exists a universal strategy. The reviewed paper answers this question in the negative. The paper also contains an approach to another determination of universal strategies.

**MSC:**[91A23](#) Differential games (aspects of game theory)[91A99](#) Game theoryCited in **2** Reviews  
Cited in **14** Documents**Keywords:**[universal generalized strategy](#)