

# On applications of the method of guiding functions in some problems of differential inclusions and control systems

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In this talk, we discuss the contemporary developments of the method of guiding functions in theory of differential inclusions and control systems: non-smooth guiding functions, integral guiding functions, guiding functions in infinite-dimensional spaces. We consider applications to the existence of periodic and generalized periodic solutions, boundary value problems, bifurcations of families of solutions and other questions.

## *References*

- [1] *V. Obukhovskii, P. Zecca, N. V. Loi, S. Kornev*: Method of Guiding Functions in Problems of Nonlinear Analysis. Lecture Notes in Math. 2076, Springer, Berlin, 2013.