

**THE PROBLEM OF FINDING A GUARANTEEING PROGRAM CONTROL FOR
A LINEAR SYSTEM WITH INCOMPLETE INFORMATION**

Received March 01, 2015

N. L. Grigorenko, Yu. A. Kondrat'eva, L. N. Luk'yanova

For a linear control system with constrained control, the problem of terminal control to a target point is considered. The starting point of the process belongs to a known set, but there is no information on which point of the set is the starting point. Sufficient conditions are given for the existence of a solution of the problem in the class of Yu.S. Osipov and A.V. Kryazhinskii's guaranteeing program packages. Calculation results are presented for a model example.

Keywords: control, incomplete information, linear systems, guaranteeing program packages, program control.

N.L. Grigorenko, Dr. Phys.-Math. Sci., Prof., Lomonosov Moscow State University, Moscow, 119992 Russia, e-mail: grigor@cs.msu.su .

Yu.A. Kondrat'eva, Doctoral student, Lomonosov Moscow State University, Moscow, 119992 Russia, e-mail: kond.yulia@gmail.com .

L.N. Luk'yanova, Cand. Sci. (Phys.-Math.), Lomonosov Moscow State University, Moscow, 119992 Russia, e-mail: lln@cs.msu.su .

Cite this article as:

N. L. Grigorenko, Yu. A. Kondrat'eva, L. N. Luk'yanova. The problem of finding a guaranteeing program control for a linear system with incomplete information, *Trudy Inst. Mat. Mekh. UrO RAN*, 2015, vol. 21, no. 2, pp. 41–49.