PROJECTION METHOD WITH LEVEL CONTROL IN CONVEX MINIMIZATION

ROBERT DYLEWSKI

Faculty of Mathematics, Computer Science and Econometrics, University of Zielona Góra 65–516 Zielona Góra, ul. Prof. Z. Szafrański 4a, Poland

e-mail: r.dylewski@wmie.uz.zgora.pl

Abstract

We study a projection method with level control for nonsmooth convex minimization problems. We introduce a changeable level parameter to level control. The level estimates the minimal value of the objective function and is updated in each iteration. We analyse the convergence and estimate the efficiency of this method.

Keywords: projection method, convex nondifferentiable minimization, level control.

2000 Mathematics Subject Classification: 65K05, 90C25.

REFERENCES


Received 10 May 2009