Generalized vector variational inequalities over countable product of sets

Allevi E., Gnudi A., Konnov I.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

In this paper, we consider vector variational inequalities with set-valued mappings over countable product sets in a real Banach space setting. By employing concepts of relative pseudomonotonicity, we establish several existence results for generalized vector variational inequalities and for systems of generalized vector variational inequalities. These results strengthen previous existence results which were based on the usual monotonicity type assumptions. © 2004 Kluwer Academic Publishers. Printed in the Netherlands.

Keywords

Countable product of sets, Existence results, Relative pseudomonotonicity, Set-valued mappings, Vector variational inequalities