A COINCIDENCE POINT RESULT VIA VARIATIONAL INEQUALITIES

ALIREZA AMINI-HARANDI*1 AND SZILÁRD LÁSZLÓ*2

* Department of Mathematics, University of Shahrekord
Shahrekord, 88186-34141, Iran
E-mail: aminih_a@yahoo.com

**Faculty of Mathematics and Computer Science
Babeș-Bolyai University
Kogălniceanu 1, Cluj-Napoca, Romania
E-mail: laszloziszi@yahoo.com

Abstract. In this paper, by making use of a new class of operators, we establish some existence results of the solution for an extended general variational inequality already considered in the literature. As application, we obtain a new coincidence point theorem in a Hilbert space setting.

Key Words and Phrases: Operator of type g-ql, extended general variational inequality, GKKM mapping, coincidence point.

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REFERENCES


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