Ćirić, L.a, Hussain, N.b, Cakić, N.c

## Common fixed points for Ćirić type f-weak contraction with applications

(2010) *Publicationes Mathematicae*, 76 (1-2), pp. 31-49.

- <sup>a</sup> Department of Mathematics, Faculty of Mechanical Engineering, Kraljice Marije 16, 11000, Belgrade, Serbia
- <sup>b</sup> Department of Mathematics, King Abdul Aziz University, P.O. Box 80203, Jeddah 21589, Saudi Arabia
- <sup>c</sup> Department of Mathematics, Faculty of Electrical Engineering, Bul. Kralja Aleksandra 73, 11000, Belgrade, Serbia

## **Abstract**

We introduce a new conception of Ćirić type f-weakly contractive mappings and the existence of common fixed points is established for Ćirić type f-weakly contractive mapping T. As an application, the existence of solution of variational inequalities is obtained. Our results unify and improve several recent results existing in the current literature.

## **Author Keywords**

Banach operator pair; Ćirić type f-weakly contractive maps; Common fixed point; F-weakly contractive maps; Variational inequalities; Weakly compatible maps