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A GREGUS TYPE COMMON FIXED POINT THEOREM IN NORMED SPACES WITH APPLICATION

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ABSTRACT. In this paper, we introduce the notion of ϕ -weakly compatible mapping for a pair of mappings. A fixed point theorem for two pairs of ϕ -weakly compatible mappings satisfying a rational type contraction in a normed space is also established. Subsequently we use our result to find existence of solutions of variational inequalities.

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