

Forward-Reflected-Backward-Type Methods for Solving Monotone Variational Inclusion Problems

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Abstract

In this talk we will present several modifications of the forward-backward splitting method for solving monotone variational inclusion problems in a real Hilbert space, where the associated single-valued operator is not necessarily cocoercive. Then we will discuss the weak convergence, the rate of convergence and the strong convergence of these methods. Inertial and Halpern's versions of these methods, and some extensions to reflexive Banach spaces will also be discussed.