

### Abstract

Let  $X$  be a uniformly convex and uniformly smooth real Banach space with dual  $X^*$ . Let  $F : X \rightarrow X^*$  and  $K : X^* \rightarrow X$  be continuous monotone operators. Suppose that the Hammerstein equation  $u + KF u = 0$  has a solution in  $X$ . It is proved that a hybrid-type approximation sequence converges strongly to  $u^*$ , where  $u^*$  is a solution of the equation  $u + KF u = 0$ . In our theorems, the operator  $K$  or  $F$  need not be defined on a compact subset of  $X$  and no invertibility assumption is imposed on  $K$ .