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Alexander J Zaslavski* (ajzasl@tx.technion.ac.il), Department Math. the Technion-IIT,
32000 Haifa, Israel. *The extragradient method for solving variational inequalities.*

In a Hilbert space, we study the convergence of the subgradient method to a solution of a variational inequality, under the presence of computational errors. Most results known in the literature establish convergence of optimization algorithms, when computational errors are summable. In this talk we show the convergence of the subgradient method for solving variational inequalities with nonsummable computational errors. We show that the subgradient method generates a good approximate solution, if the sequence of computational errors is bounded from above by a constant. (Received September 19, 2012)