

Iterative Methods for Variational Inequalities

Between 1978 and 1992 Prof. Mittleman published more than a dozen papers on various aspects of variational inequality problems for PDEs. In this talk he will show how iterative algorithms for the solution of discretized versions can be generalized from such methods for the boundary value case. The Variational inequalities represent interesting real-world problems occurring in different disciplines.

It may be added that Prof. Hans D. Mittelmann started his career in his native Germany with the PhD in 1973 and the Habilitation in 1976, both at the Technical University of Darmstadt. He worked on Finite Element Methods for PDEs, partly on theoretical aspects such as convergence, mainly, however, on computational aspects. The interest in nonlinear problems naturally leads to the inclusion of variational inequalities and bifurcation problems.