Computing the Fixed-Points of General Mixed Variational Inequalities

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Abstract. In this paper, we suggest and analyze a class of predictor-corrector methods for computing the fixed-points of general mixed variational inequalities. The convergence of the proposed methods only requires the partially relaxed strongly monotonicity of the operator, which is weaker than co-coercivity. As special cases, we obtain a number of known and new results for solving various classes of variational inequalities and related problems.

Key words and phrases: Variational inequalities, auxiliary principle, iterative methods, convergence, fixed points.

References

