

Parallel Hybrid Methods for Variational Inequalities, Equilibrium Problems and Common Fixed Point Problems

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Abstract: In this report we propose two strongly convergent parallel hybrid iterative methods for finding a common element of the set of fixed points of a family of asymptotically quasi ϕ -nonexpansive mappings $\{F(S_j)\}_{j=1}^N$, the set of solutions of variational inequalities $\{VI(A_i, C)\}_{i=1}^M$ and the set of solutions of equilibrium problems $\{EP(f_k)\}_{k=1}^K$ in uniformly smooth and 2-uniformly convex Banach spaces.

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