

P.L. Combettes, On the numerical robustness of the parallel projection method in signal synthesis, *IEEE Signal Processing Letters*, Vol. 8, pp. 45-47, (2001). DOI:10.1109/97.895371.

Abstract

The parallel projection method (PPM) uses successive averages of projections onto constraint sets to construct a signal that least violates these constraints in an average squared-distance sense. In this paper, we study the robustness of PPM to errors in the computation of the projections. It is shown that the convergence properties of PPM remain valid under a simple summability condition on the relaxed averages of the errors.