

Title: Iterative algorithms for feasibility problems

Abstract: Given finitely many constraint sets, the so-called "feasibility problem" is the find a point in their intersection. Many problems, including not only those arising in the real-world but also from within mathematics itself, can be cast within this framework. Projection methods are a class of iterative algorithms which can applied to the feasibility problem and aim to exploit the property that, more often than not, the individual constraint sets are relatively simpler as compared to their intersection. In this talk, I will discuss some recent advances in theory of projection algorithms.