



solving multistage stochastic mixed integer nonlinear programs (MS-MINLP). This new framework significantly generalizes the traditional SDDP algorithm for multistage stochastic linear program and the recent stochastic dual dynamic integer programming (SDDiP) for multistage stochastic mixed-integer linear programs to MS-MINLP and multistage distributionally robust optimization with non-Lipschitzian value functions. We will also present a complete result that settles an important open question regarding the iteration complexity of SDDP-type algorithms in this general framework. This is joint work with my doctoral student Shixuan Zhang.