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Jai N. Singh* (jsingh@mail.barry.edu), Department of Mathematics & Computer Science, Barry University, 11300 NE 2nd Ave., Miami Shores, FL 33161, and **Prabhat Kumar**.
Karmarkar's Algorithm in Linear Programming and its Consequences in Computational Mathematics.

In this talk we present various results related to the convergence of iterates, termination of the algorithm and the choice of the step-length of Karmarkar's polynomial-time algorithm in linear programming and indicate some of its recent consequences in computational mathematics. (Received August 23, 2010)