## AN ANALYTIC ITERATIVE GOAL PROGRAMMING (AIGP) ALGORITHM FOR SMALL & LARGE SCALE PROBLEMS

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## ABSTRACT

In this paper (AIGP) algorithm is presented to solve and analyze small and large scale linear goal programming problems.

It is considered a modification of the "Arthur & Ravindron" algorithm such that the goals related with any priority level  $t(i.e.\ P_t)$ , t>1 are tested before adding them to prority level t+1. This test leads to:

(i) decreasing the number of iterations,
 (ii) measuring the effect of each goal i, i ε Pt on the achievement of priority level (t+1), in turn , on the achievement function.