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**THE OPTIMIZATION OF TIME AND COST PROCESS TECHNIQUE**

**Abstract**

In this paper, some concepts of two closely related operations research techniques, critical path method and linear programming were reviewed to describe recent modeling structures that have been of great value in analyzing extended planning horizon project time cost crashes problems.The activities underwent crashing of both the time and cost using linear programming. A simplified representation of a small project and a linear programming model was formulated to represent this system. This method is simple, applicable to a large network, generates a shorter computational time at low cost, along with an increase in robustness.

**Keywords:** Critical path method, linear programming, crashing, maintenance