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# REPETITIVE PROJECT SCHEDULING: DEVELOPING CPM-LIKE ANALYTICAL CAPABILITIES

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## ABSTRACT

Continuity of work over the successive units is the primary requirement for effective utilization of dedicated resources while scheduling repetitive construction projects. Critical path method (CPM) is the most commonly used method for scheduling construction projects. When CPM is used for scheduling repetitive construction projects, the continuity of work over successive units can not be ensured. To overcome this limitation of CPM in scheduling repetitive projects, a number of resource-driven scheduling approaches have been proposed over last thirty years. Most of these resource-driven scheduling methods are graphical and lack the analytical capabilities. In this paper, a new scheduling methodology to carry out CPM-like analysis is presented. This model ensures maximum possible crew work continuity and enables to determine the floats.

**KEYWORDS:** Repetitive Construction Projects, Scheduling, Critical Path, Crew Work Continuity