## A modified differential evolution algorithm for scheduling of software project problem

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## Abstract

This article proposes a modified differential evolution (DE) technique for the software project scheduling problem (SPSP). The awareness on proposing an efficient solution method for the SPSP is the fact that the increasing challenges facing the software industry has always been a topic of interest. The ever increasing software assignments and the number of engineers who handles it, the scheduling problem is complex in nature and cumbersome to solve. Thus making the SPSP a non-linear optimization problem and looking forward a most efficient computational intelligent algorithm to find out the best possible solution. Several techniques are invented to solve such problems and differential evolution (DE) techniques. DE proved itself as a most efficient and effective optimization technique that can solve the types of problems like SPSP with a guarantee to a reasonably better solution. The DE in this paper is modified to overcome some of the difficulties faced by the regular DE when solving complex problems. Several simulation results are illustrated to prove the domination of the proposed DE over some of the techniques to solve the SPSP.