Abstract

Software Project Management activities are classified as planning, monitoring-control and termination. Planning is the most important activity in project management which defines the resources required to complete the project successfully. Software Cost Estimation is the process of predicting the cost and time required to complete the project. The basic input for the
software cost estimation is coding size and set of cost drivers, the output is Effort in terms of Person-Months (PM’s). In this paper we proposed a model for software cost estimation using Multi Objective (MO) Particle Swarm Optimization. The parameters of model tuned by using MOPSO considering two objectives Mean Absolute Relative Error and Prediction. The COCOMO dataset is considered for testing the model. It was observed that the model gives better results when compared with the standard COCOMO model. It is also observed, when provided with enough classification among training data may give better results.

Reference

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**Index Terms**

Computer Science

Software Engineering

**Key words**

KDLOC-thousands of delivered lines of code

PM- person

months

PSO- particle swarm optimization

COCOMO- constructive cost estimation
MO- Multi Objective