Performance Evaluation of Regression Techniques for Effort Estimation

Abstract

Software effort estimation assesses the quantity of work required to develop a software project. It is a well known fact that the software industry is unable to give proper an estimate of effort, time and development cost and this is described in reports in various reports including those from project management consultancy companies through case studies on failed projects, and surveys. In this paper, we propose to investigate the Mean Magnitude Relative Error (MMRE) and Median Magnitude Relative Error (MdMRE) using various techniques such as M5, Linear regression, SMO Polykernel and RBF kernel. The dataset COCOMO is used for the investigations.

References

Performance Evaluation of Regression Techniques for Effort Estimation


Index Terms

Computer Science  Software Engineering
Keywords
Effort estimation  Mean Magnitude Relative Error (MMRE) and Median Magnitude Relative Error (MdMRE)  SMO Kernels