An Active Learning Method for Software Effort Estimation

Dataset	Percentage
Coc81	52.38%
Nasa93	69.84%
Desharnais	40.74%
Albrecht	54.17%
Finnish	50.00%
Kemerer	33.33%
Maxwell	46.77%
Miyazaki	43.75%
Telecom	38.89%

Figure 1: Percentage of instances that are not closest neighbor to any other instance.

ABSTRACT

Proposed is an active learning strategy based on the *popularity* of instances in the datasets.

Assumption is that the hypothetical-expert is able to provide perfect labels, i.e. he can perfectly estimate the effort of the queried project.

Categories and Subject Descriptors

H.4 [Software Cost Estimation]: k-NN; D.2.8 [Software Engineering]: Cost—active learning

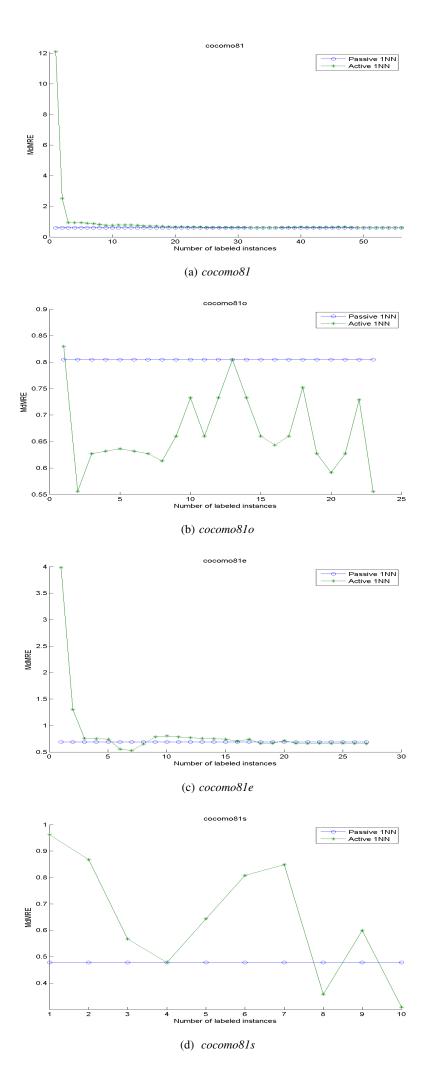


Figure 2: cocomo MdMMRE Values.

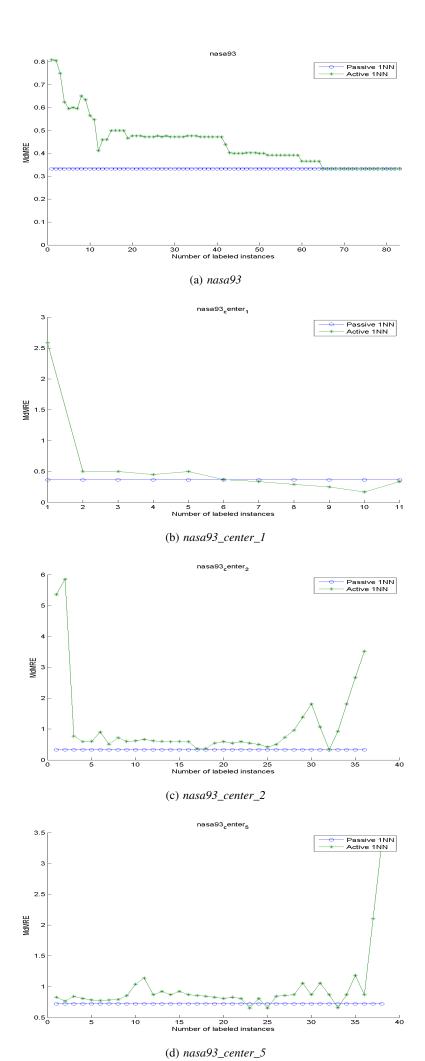


Figure 3: Nasa93 MdMMRE Values.