# Articles

| Publicaton source | Title | Year |
|---|---|---|
| TSE | MAHAKIL: Diversity Based Oversampling Approach to Alleviate the Class Imbalance Issue in Software Defect Prediction | 2017 |
| WCRE | An Incremental Update Framework for Efficient Retrieval from Software Libraries for Bug Localization | 2013 |
| TSE | Text Filtering and Ranking for Security Bug Report Prediction | 2019 |
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|  |  |  |

# Predicting Query Quality for Applications of Text Retrieval to Software Engineering Tasks          -TOSEM.2017
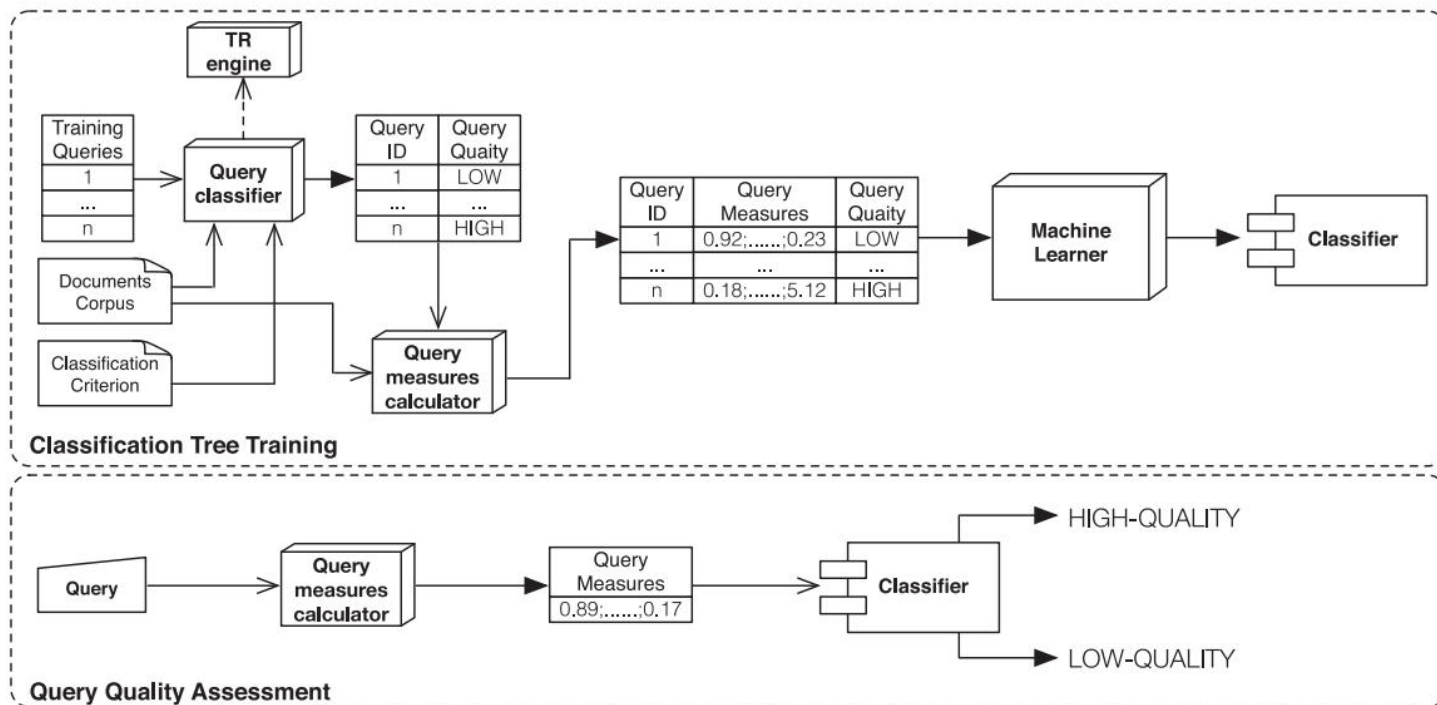


Fig. 1.   The proposed approach Q2P.

# A Large Scale Study of Long-Time Contributor Prediction for GitHub Projects          -TSE.2021

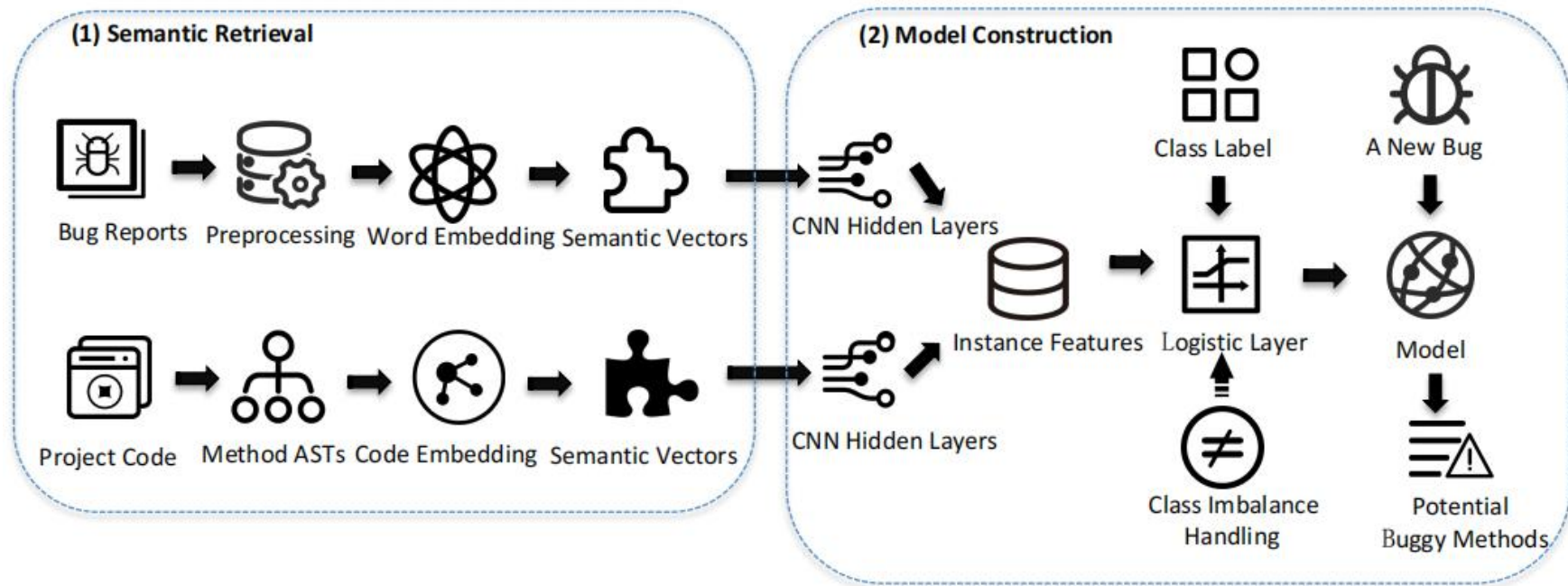| Demension | Factor Name | Explanation |
|---|---|---|
| **Developer Profile** | user_age | Number of days between the registration date of the new developer and the date that he/she joins the repository |
| | user_own_repos | Number of repositories the new developer owns when he/she joins the repository |
| | user_watch_repos | Number of repositories the new developer watches when he/she joins the repository |
| | user_contribute_repos | Number of repositories in which the new developer has submitted at least one commit when he/she joins the repository |
| | user_history_commits | Number of commits the new developer has submitted when he/she joins the repository |
| | user_history_pull_requests | Number of pull requests the new developer has submitted when he/she joins the repository |
| | user_history_issues | Number of issues the new developer has submitted when he/she joins the repository |
| | user_history_followers | Number of users who follow the new developer |
| **Repository Profile** | language | Main programming language used by the repository |
| | before_repo_commits | Number of commits that the repository have when the new developer joins |
| | before_repo_commit_comments | Number of commit comments that the repository has when the new developer joins |
| | before_repo_contributors | Number of contributors that the repository has when the new developer joins |
| | before_repo_contributor_{S} | Statistics of commits of contributors in the repository, where $S$ can be max, min, mean, median, and std |
| | before_repo_issues | Number of issues that the repository have when the new developer joins |
| | before_repo_issue_comments | Number of issue comments that the repository has when the new developer joins |
| | before_repo_issue_events | Number of issue events that the repository has when the new developer joins |
| | before_repo_issue_events_closed | Number of issue *closed* events that the repository has when the new developer joins |
| | before_repo_issue_events_assigned | Number of issue *assigned* events that the repository has when the new developer joins |
| | before_repo_pull_requests | Number of pull requests that the repository has when the new developer joins |
| | before_repo_pull_request_comments | Number of pull request comments that the repository has when the new developer joins |
| | before_repo_pull_request_history | Number of pull request events the repository has when the new developer joins |
| | before_repo_pull_request_history_merged | Number of *merged* pull request events the repository has when the new developer joins |
| | before_repo_pull_request_history_closed | Number of *closed* pull request events the repository has when the new developer joins |
| | before_repo_watchers | Number of watchers the repository has when the new developer joins |
| **Developer Monthly Activity** | month_user_commits | Number of commits that the new developer submits to the repository in the first month |
| | month_user_commit_comments | Number of comments received in the commits submitted by the new developer in the first month |
| | month_user_issues | Number of issues that the new developer submits to the repository in the first month |
| | month_user_issue_comments | Number of comments received in the issues submitted by the new developer in the first month |
| | month_user_issue_events | Number of events received in the issues that the new developer submits to the repository in the first month |
| | month_user_issue_events_closed | Number of closed events received in the issues submitted by the new developer in the first month |
| | month_user_issue_events_assigned | Number of assigned events received in the issues submitted by the new developer in the first month |
| | month_user_pull_requests | Number of pull request that the new developer submits to the repository in the first month |
| | month_user_pull_request_comments | Number of comments received in the pull request submitted by the new developer in the first month |
| | month_user_pull_request_history | Number of pull request events received in the pull request submitted by the new developer in the first month |
| | month_user_pull_request_history_merged | Number of merged pull request events received in the pull request submitted by the new developer in the first month |
| | month_user_pull_request_history_closed | Number of closed pull request events received in the pull request submitted by the new developer in the first month |

Fig. 1.   The Framework of BLESER.

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