

**GitHub**



**Jira**



Project  
Selection

Cloning studied  
projects

**GC1:** Identifying  
performance  
issues

924 bug  
reports

**GC2:** Extracting  
performance-  
related commits  
and pull requests

**RC2:** Detecting  
project refactorings

48363 Project  
commits dataset

374 Performance-  
issues commits  
dataset

**RC1:** Detecting  
performance-issues  
refactorings

532 commits  
and 118 pull  
requests

**RC3:** Comparative  
analysis of  
performance-issues  
and project commits  
datasets

6627  
Performance  
refactorings

RQ1

RQ2

489779  
Non-performance  
refactorings

RQ3

RQ4

RQ5

