**Background**

60-90 patches are submitted to OSS projects daily

**Review Agreement Pattern**

- Consensus
  - Merged: 100%
  - Abandoned: 0%

- Discrepancy
  - Merged: 50%
  - Not resolved: 50%

**Data Setting**

- Auto test system
- Manual Discrepancy Review

**Reasons of Discrepancy Review**

Read 377 review reports manually each project

**Manual Discrepancy Review Prediction**

- Top important factors to predict manual discrepancy reviews

**Manual Discrepancy Review**

- Review report
  - Description length
  - New function or Bug
- Submitted Time
- Owner experience
  - #patch #comment
  - %consensus
- Patches
  - Churn
  - #Subsystem
  - #Component

**Owner’s experience is more important!**

**Random Forest**

#manual discrepancy review

- Qt (30.0%)
  - 20,388
  - 68,113

- OpenStack (22.6%)
  - 19,595
  - 86,549