

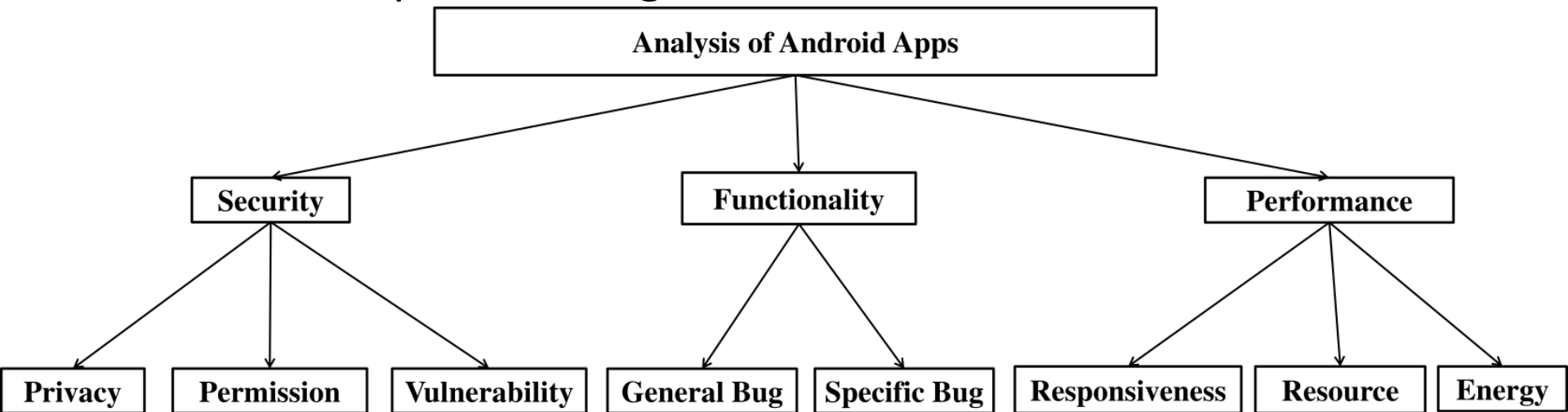
Analyses for specific defects in android applications: a survey

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Problems & Ideas

- Program analysis has been widely used in defect detection of Android, but works scatter as their targeted defects vary
 - One work might focus on a specific type of defects
 - Redundant effort might be made
 - Overview about “Specific Defects in Android Applications” is needed
- Idea: Make a taxonomy according to summarized purposes and proposed techniques of research works to conclude trends and provide insights



Main Contributions

- **Summarized recent works about program analysis on certain types of defects related to Android characteristics**
- **Made four main findings**
 - The infrastructure that supports detection of various defects should be enriched to meet the industry's need;
 - Works that can systematically collect and formalize Android recommendations are in demand;
 - Existing techniques can be improved with more precise techniques to be more applicable;
 - The fragmentation and evolution of Android system should be taken into consideration when developing new approaches.