# “RecDroid: Smartphone Security Method Employing Crowdsourcing Techniques”

VCU #15-028

## Applications

- Mobile device applications
- Smartphone security
- Expert reviews for applications

## Advantages

- Allows users to make safer decisions on downloadable applications
- Grants user access to set permission control limits on applications
- Utilizes crowdsourcing from expert and non-expert users
- Recommendations generated by a unique algorithm that ranks expert and non-expert reviews
- Increases expert framework through voting algorithm


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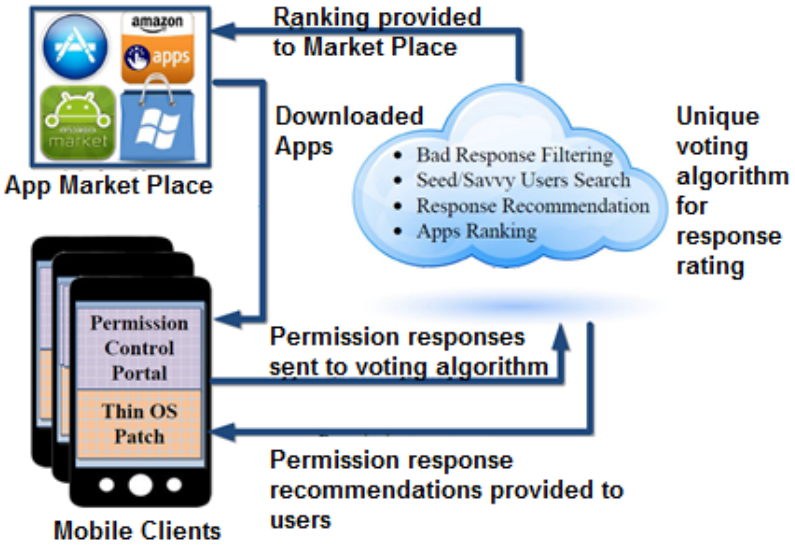
## Technology Summary

With the number of mobile apps developed within the past few years reaching well over 1 million and the average user downloading approximately 26 apps/month, there is a need to produce a security system to accurately measure mobile app legitimacy to ensure safety with each download. Researchers at VCU have produced such a system to recommend safety features for mobile apps by crowdsourcing information from expert and non-expert users. Expertise level of users is continuously evaluated by a unique voting algorithm, which is expected to lead to an increased network of trusted expert reviewers. Users will be able to maintain security control of each third party downloadable app by choosing settings based on recommendations.




## Technology Status

Patent Pending: U.S. and Foreign rights available
A publication describing a portion of this technology can be found at the following link:

http://dl.acm.org/citation.cfm?id=2646586
http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7140304
http://isyou.info/jisis/vol5/no2/jisis-2015-vol5-no2-03.pdf

This technology is available for licensing to industry for further development and commercialization.