

Privacy Protection for Mobile Cloud to Prevent Data Over-collection



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The Hong Kong Polytechnic University

► Abstract

In smart city, all kinds of users' data are stored in electronic devices to make everything intelligent. A smartphone is the most widely used electronic device and it is the pivot of all smart systems. However, current smartphones are not competent to manage users' sensitive data, and they are facing the privacy leakage caused by data over-collection. Data over-collection, which means smartphones apps collect users' data more than its original function while within the permission scope, is rapidly becoming one of the most serious potential security hazards in smart city. We study the current state of data over-collection and study some most frequent data over-collected cases. We present a mobile-cloud framework, which is an active approach to eradicate the data over-collection. By putting all users' data into a cloud, the security of users' data can be greatly improved. We have done extensive experiments and the experimental results have demonstrated the effectiveness of our approach. This research has been published in IEEE Transactions on Computers.

► About the Speaker

Meikang Qiu received the BE and ME degrees from Shanghai Jiao Tong University and received Ph.D. degree of Computer Science from University of Texas at Dallas. Currently, he is a Distinguished Professor at Shenzhen University, China and an Adjunct Professor at Columbia University. He is an IEEE Senior member and ACM Senior member. He is the Chair of IEEE Smart Computing Technical Committee. His research interests include Cyber Security, Cloud Computing, Smarting Computing, Intelligent Data, Embedded systems, etc. He has published 4 books, 360 peer-reviewed journal and conference papers (including 160+ journal articles, 200+ conference papers, 50+ IEEE/ACM Transactions papers), and 3 patents. He has won ACM Transactions on Design Automation of Electrical Systems (TODAES) 2011 Best Paper Award. He has won another 10+ Conference Best Paper Awards in recent years. Currently he is an associate editor of over international journals, including IEEE Transactions on Computer and IEEE Transactions on Cloud Computing. He is the General Chair/Program Chair of a dozen of IEEE/ACM international conferences, such as IEEE HPCC, IEEE TrustCom, IEEE CSCloud, and IEEE BigDataSecurity. He has given 100+ talks all over the world, including Oxford, Princeton, Stanford, and Yale University. He has won Navy Summer Faculty Award in 2012 and Air Force Summer Faculty Award in 2009. His research is supported by US government such as NSF, Air Force, Navy and companies such as GE, Nokia, TCL, and Cavium.

All are welcome!

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