

Cooperative Private Searching in Clouds

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Professor Jie Wu

Department of Computer and
Information Sciences

Temple University

<http://www.cis.temple.edu/~jiewu/>

Abstract: An important problem in cloud computing is to protect the privacy of the cloud users from the cloud provider. To address this problem, researchers have proposed several techniques to protect user privacy. However, these techniques incur heavy computational and bandwidth related costs. In this talk, we propose a cooperative private searching protocol that provides the same privacy protections as prior protocols, but with a much lower overhead. Our protocol allows multiple users to combine their queries together to reduce the overhead while protecting their privacy.

Biographical Sketch: Jie Wu is Chair and Laura H. Carnell Professor in the Department of Computer and Information Sciences at Temple University, USA. Prior to joining Temple University, he was a program director at the National Science Foundation and Distinguished Professor at Florida Atlantic University. His research interests include wireless networks, mobile computing, routing protocols, fault-tolerant computing, and interconnection networks. Dr. Wu's publications include over 600 papers in scholarly journals, conference proceedings, and books. He has served on several editorial boards, including IEEE Transactions on Computers and Journal of Parallel and Distributed Computing. Dr. Wu was general co-chair for IEEE MASS-2006, IEEE IPDPS2008, and IEEE DCOSS-2009 and was the program co-chair for IEEE INFOCOMM-2011. He served as general chair for IEEE ICDCS-2013. He was an IEEE Computer Society Distinguished Visitor and the chair for the IEEE Technical Committee on Distributed Processing (TCDP). Currently, Dr. Wu is an ACM Distinguished Speaker and a Fellow of the IEEE. He is the recipient of 2011 China Computer Federation (CCF) Overseas Outstanding Achievement Award.