


# Big Data and Cloud Computing

时间:	2012年4月20日星期五下午 2:30-4:00
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## Abstract

“Cloud” is a common metaphor for an Internet accessible infrastructure (e.g. data storage and computing hardware) which is hidden from users. Cloud Computing makes data truly mobile and a user can simply access a chosen cloud with any internet accessible device. In Cloud Computing, IT-related capabilities are provided as services, accessible without requiring detailed knowledge of the underlying technology. Thus, many mature technologies are used as components in Cloud Computing, but still there are many unresolved and open problems. The Cloud Computing Association ( [www.cloudcom.org](http://www.cloudcom.org) ) aims to bring together researchers who work on cloud computing and related technologies. Big data clouds are a key requirement for providing services in the Future Internet. To ensure technological and sociological sustainability of future cloud services, it is essential to fulfill the requirements of the big data cloud, characterized as: rapid elasticity, massive scale, robust computing, virtualization, security and privacy, and energy efficiency. These characteristics are vital for realizing the potential of cloud computing and avoiding incidents.

## Biography

Prof. Chunming Rong is head of the Center for IP-based Service Innovation (CIPSI) at the University of Stavanger (UiS) in Norway. The CIPSI has the mission to promote cross-fertilization between several research fields to facilitate design and delivery of large-scale and complex IP-based services required by many application areas. He is also visiting chair professor at Tsinghua University (2011 – 2013) and served also as an adjunct professor at the University of Oslo 2005-2009. He spent one sabbatical year as visiting professor at the Stanford University 2009-2010. His research interests include cloud computing, big data analysis, security and privacy. He is co-founder and chairman of the Cloud Computing Association (CloudCom.org) and its associated conference and workshop series. He is member of the IEEE Cloud Computing Initiative, and member of Cloud Publications Steering Committee, and IEEE Study Group on Cloud Standard and co-chairs the IEEE Technical Area of Cloud Computing, in TCSC (Technical Committee on Scalable Computing). He is the co-Editors-in-Chief of the Journal of Cloud Computing by Springer. He received award Editor's Choice in Discrete Mathematics in 1999. He coauthored a book titled "Security in Wireless Ad Hoc and Sensor Networks" published by John Wiley & Sons in 2009. Prof. Rong has extensive experience in managing R&D projects funded by both industry and funding agencies, such as the Norwegian Research Council and the EU Framework Programs.