

Big Data: Hype and Reality

C. Mohan
cmohan@us.ibm.com

1 Abstract

Big Data has become a hot topic in the last few years in both industry and the research community. For the most part, these developments were initially triggered by the requirements of Web 2.0 companies. Both technical and non-technical issues have continued to fuel the rapid pace of developments in the Big Data space. Open source and non-traditional software entities have played key roles in the latter. As it always happens with any emerging technology, there is a fair amount of hype that accompanies the work being done in the name of Big Data. The set of clear-cut distinctions that were made initially between Big Data systems and traditional database management systems are being blurred as the needs of the broader set of (real world) users and developers have come into sharper focus in the last couple of years. In this talk, I will survey the developments in Big Data and try to distill reality from the hype!

2 Biography

Dr. C. Mohan has been an IBM researcher for 33 years in the information management area, impacting numerous IBM and non-IBM products, the research and academic communities, and standards, especially with his invention of the ARIES family of database locking and recovery algorithms, and the Presumed Abort commit protocol. This IBM, ACM and IEEE Fellow has also served as the IBM India Chief Scientist for 3 years. In addition to receiving the ACM SIGMOD Innovation Award (1996), the VLDB 10 Year Best Paper Award (1999) and numerous IBM awards, was elected to the US and Indian National Academies of Engineering, and was named an IBM Master Inventor. This Distinguished Alumnus of IIT Madras received his PhD at the University of Texas at Austin. He is an inventor of 42 patents. He has served on the advisory board of IEEE Spectrum and on the IBM Software Group Architecture Boards Council. Mohan is a frequent speaker in North America, Europe and India, and has given talks in 40 countries.