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## Editorial

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**Biographical notes:** V. Vijayakumar is currently working as a Professor in VIT University. He has more than 18 years of experience which includes eight years in teaching and six years in the industry. He is also a Research Group Coordinator of Cloud Computing Research Group. He is involved in many research and development activities, he has also organised many national/international seminars/workshops/symposiums/conferences/special sessions in the area of cloud computing and big data which includes ISBCC'14 in India, CCCA'14 in Vietnam and CCNC'14 in the USA. His area of research includes grid computing, cloud computing, big data, web semantics and also involved in the domains like bio-medical application, mammogram, autism, immune system and other areas like key management, security issues in cloud and grid computing. He had authored many books. He is the reviewer for Springer's *Journal of Super Computing*. He is a member of ACM, ISTE, CSTA and IAENG.

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Cloud computing has emerged as a de facto computing model, enabling software, infrastructure, and information to be used as services over the network in an on-demand manner. Currently, both industry and high-resolution data-sets that allow for data-intensive decision-making, at a level never before imagined. This volume contains extended version of papers from First International Symposium on Big Data and Cloud Computing Challenges (ISBCC'04) at VIT University, Chennai.

I would like to congratulate the authors of selected papers as the technical review committee has rigorously reviewed the submissions received from researchers, scientists, engineers, students and practitioners. The paper authored by T.P. Shabeera and S.D. Madhu Kumar address virtual machine allocation in map reduce cloud using data locality principle. The paper by Naveen Dahiya, Vishal Bhatnagar and Manjeet Singh has proposed the

ability of quality metrics in predicting the understandability of conceptual schemas and have evaluated empirically. The paper authored by Richard Lomotey and Ralph Deters have proposed a data analytics framework that enables knowledge discovery through information retrieval and filtering from document-based NoSQL. The paper authored by G.K. Karthikeyan, Prassanna Jayachandran and Neelananarayanan Venkataraman discusses energy-aware and network-aware scheduling jobs in a data-centre environment. The issue contains technical papers discussing algorithms and tools that address important issues in big data and cloud environment.

As a result, I believe this special issue would be a tremendous resource for students, researchers and practitioners and have a significant impact on the this important and growing domain.