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**Rajendra Akerkar**

Special Issue on  
**Big Data, Logistics and Service Science**

Shifeng Liu & Mincong Tang  
*Guest Editor*

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### Guest Editorial (Vol. 13, No. 1, February 2016)

It is our pleasure to present this special issue of *International Journal of Computer Science and Applications*. In this issue (Volume 13, Issue 1), we selected 9 papers which have gone through several rounds of review and revision, and represent a cross-section of research in information technology areas that touch upon both technical and managerial issues. The preliminary versions of these papers were presented at the *Fifth International Conference on Logistics, Informatics and Service Science (LISS 2015)*, which was jointly hosted by Beijing Jiaotong University, China and UPC BarcelonaTech, Spain in July 27 to 29, 2015 at Baecelona, Spain.

Ever since the first meeting in Beijing (July 2011), *LISS* conferences have been a big scientific event for researchers and practitioners in the areas of IT, logistics and service science. Increasingly more participants from outside China attended the Conference, thus expanding its impact in the scientific world. Since 2012, the organizers of *LISS* decided to publish selected best full papers presented at the Conference as special issues of respected scientific journals. Publication of extended full papers of presentations given at the Conference provides advantages for both authors and reviewers. On the one hand, the authors had the opportunity to considerably improve the quality of their work through previous deep discussions with peers during the Conference. On the other hand, we could use the precious help of our expert colleagues, who followed the presentations, in assessing the quality of selected papers, hence achieving an even worthier evaluation of these contributions.

After receiving the camera-ready papers for *LISS 2015* we started to select candidates for submissions to a number of respected scientific journals. To provide an equal opportunity to all authors of invited papers from *LISS 2014*, we announced in the conference circulars the inclusion of a special issue of *International Journal of Computer Science and Applications*. From here on, authors of 54 submissions were invited to revise and extend, according to the publishing standards, to a full paper volume their Conference contributions, eventually shaping a Special Issue of *International Journal of Computer Science and Applications*. Based on a regular reviewing process nine papers were finally accepted, representing an acceptance rate less than 17%.

(cont.)



### Guest Editorial (Vol. 13, No. 1, February 2016)

The topics covered by papers published in this Special Issue include:

- Fundamental theory and application of cloud computing technology, including a network load balancing algorithm (Kang & Ting) and a comprehensive road map of smart traffic and transport services (Wang & Li);
- Empirical study of information value, service innovation of big data in the internet finance development (Fu *et al.*) and telecom industry (Du *et al.*);
- Applications of big data in trend partition detection (Gao & Gu), order allocation for service supply chain (Liu & Wang) and container throughput forecasting (Huang *et al.*);
- Hadoop and MapReduce related topics, like Efficient matrix multiplication in Hadoop (Deng & Wu) and knowledge reduction based on MapReduce (Cui & Huang).

The 20 papers examine big data and cloud computing technology in different contexts; various approaches with analytical methods, design science methods and the like have been applied in order to reach the findings presented there. Moreover, they demonstrate the practical relevance of academic research in the IT area.

To sum up, we would like to thank all those who kindly contributed to this Special Issue: authors who submitted their papers, reviewers for their kind help and efficient reviews, and the Editor-in-Chief for his gracious cooperation and support. We are also indebted for the assistance provided in the preparation and publication of this issue to Dr. Zhihong Tian, and to the publishing and production team of *International Journal of Computer Science and Applications*. We hope that you will enjoy reading these papers as much as we enjoyed reviewing, compiling and editing this Special Issue.

Dr. Shifeng Liu

Dr. Mincong Tang

*Guest Editors*