

Preface

It is our pleasure to present this special issue of *Cybernetics and Information Technologies*. In this issue (Volume 15, No 6) we selected 20 papers which have gone through several rounds of review and revision, and represent a cross-section of research in information technology areas that touch 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 27-29 2015 at Barcelona, 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 the best selected full papers presented at the Conference as special issues of respected scientific journals. Publication of the extended full papers of the presentations at the Conference provides advantages for both authors and reviewers. On 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 the 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 on Cybernetics and Information Technologies. 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 *Cybernetics and Information Technologies*. Based on a regular reviewing process, eight papers were finally accepted, representing an acceptance rate less than 37%.

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

- Algorithms of follow aircraft (Ming et al.), adaptive chaos perturbation (Dong et al.), intelligent transportation (Seng et al.), clustering for large-scale sensor networks (Lin et al.) and web mining (Huang et al.).
- Modeling of knowledge model (Liu et al.), image de-noising model (Cui et al.), independent control model (Xiong et al.) and ontology learning model (Yan et al.);
- Systems analysis and design (Lin et al.); audio object coding (Yang et al.); video conferencing system coding (Pan et al.); web design (Feng et al.); knowledge base (Liu et al.);
- Applications of geographic information services ontology (Guan et al.);
- Sound field reproduction (Jia et al.); measurement of a three-dimensional image (Sun et al.);
- Stereo video congestion control (Wang et al.); visualization emergency (Liao et al.);
- Order promising method (Lv et al.).

The 20 papers examine information 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: the authors who submitted their papers, the reviewers for their kind help and cooperation, and the Editor-in-Chief, Professor Danail Dochev, for his gracious invitation and continued 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 *Cybernetics and Information Technologies*. 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*