The 2014 International Conference on Wireless Communications, Networking and Applications was held in Shenzhen, China, from December 27 to 28, 2014. WCNA 2014 aims to bring researchers, engineers, and students to the latest research results and the advanced research methods in the field. WCNA 2014 features several topics of interest, namely emerging technologies in wireless and mobile computing and applications, Internet of things, resource allocation and interference management, long-term evolution engineering, communication architecture, algorithms, modeling and evaluation, smart grid and cloud communication, security, privacy, and trust.

We received a large number of submissions from 18 different countries around the world. The WCNA program committee worked very hard to have all papers reviewed before the review deadline. The keynote speaker, Prof. Qing-An Zeng is internationally recognized leading expert in the area of wireless and mobile networks, ad hoc and sensor networks, heterogeneous networks, handoff, resource management, and mobility management, who has demonstrated outstanding proficiency and achieved distinction in the profession.

We would like to express our sincere gratitude to all the members of the technical program committee and the organizers for their enthusiasm, time, and expertise. Our deepest thanks also go to the many volunteers and staff for the long hours and hard work they have generously given to WCNA 2014. We would also like to thank Aninda Bose and Kamiya Khatter, Editor of Springer (India) Private Limited, for their excellent support and advice. We are very grateful to the WCNA support personnel for their support in making this possible. Finally, we would like to thank all the authors, speakers, and participants of this conference for their contributions to WCNA 2014.