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Preface

Over the past few years, wireless communications and networking keep growing fast, driven by the maturing of 3G/4G cellular technologies, wide deployment of WiFi access points, and proliferation of smart personal mobile devices. At the same time, people are accustomed to bandwidth-hungry applications, for example, online video streaming, online gaming, emails with multimedia attachment, and so on. This trend of multimedia networking requires next-generation wireless networks to provide not only basic Internet access but also quality of service guarantee, seamless roaming among heterogeneous networks, and scalable solutions to handle the huge amount of users. It also raises new research challenges to both industry and academia in resource allocation and scheduling, mobility management, distributed algorithms, cooperative networking and dynamic spectrum sharing, security and privacy, scalable and energy-efficient network protocols.

The annual International Conference on Wireless Algorithms, Systems, and Applications (WASA) provides a forum for theoreticians, system and application designers, protocol developers and practitioners to exchange ideas, share new findings, and discuss challenging issues for the current and next-generation wireless networks. Past WASA conferences were held in Xian (2006), Chicago (2007), Dallas (2008), Boston (2009), and Beijing (2010). WASA 2011, the 6th WASA conference, took place in Chengdu during August 11–13, 2011. Each submission was reviewed by at least three Program Committee members. With a rigorous review process, 39 (26 regular and 13 invited) papers were selected for presentation at the conference.

We thank all the authors for submitting their papers to the conference. We also thank all the members of the Technical Program Committee and external referees for their help in completing the reviewing process, especially under the tight time constraints. We appreciate the effort of Jiming Chen, Xinbing Wang, and Hongbo Jiang in inviting high-quality papers to the Sessions on Selected Topics. We are grateful to the members of the Steering Committee for their involvement, encouragement, and help throughout this process. Finally, many other people contributed to the success of WASA 2011 directly and indirectly. Even though their names cannot be listed here because of space limitation, we owe them our gratitude.

August 2011

Yu Cheng
Do Young Eun
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WASA 2011 was organized by the University of Electronic Science and Technology of China in cooperation with NSFC.

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