The 4th International Conference on Network Security & Applications (CNSA 2011) was held in Chennai, India, during July 15–17, 2011. The conference focuses on all technical and practical aspects of security and its applications for wired and wireless networks. The goal of this conference is to bring together researchers and practitioners from both academia and industry to focus on understanding the present-day security threats and to propose and discuss counter-measures to defend against such attacks. In the past few years, the enthusiastic participation of a large number of delegates in different AIRCC–organized conferences, like the International Conference on Network Security and Applications (CNSA), International Conference on Networks and Communications (NECOM), International Conference on Web and Semantic Technology (WEST), International Conference on Wireless and Mobile Networks (WIMON), the First International Conference on Advances in Computing and Information Technology (ACITY), reflect the fact that the parent body of the Academy and Industry Research Collaboration Center (AIRCC) is successful in providing a platform toward promoting academic collaboration. We believe that this spirit of co-working was further strengthened during CNSA 2011.

The CNSA 2011, NECOM 2011, WEST 2011, WIMoN 2011 and AICTY 2011 committees invited original submissions from researchers, scientists, engineers, and students that illustrate research results, projects, survey works, and industrial experiences describing significant advances in the areas related to the relevant themes and tracks of the conferences.

Thanks to the authors whose effort as reflected in the form of a large number of submissions for CNSA 2011 on different aspects of network security including Web security, cryptography, performance evaluations of protocols and security application, etc. All the submissions underwent a scrupulous peer-review process by a panel of expert reviewers. Besides the members of the Technical Committee, external reviewers were invited on the basis of their specialization and expertise. The papers were reviewed based on their technical content, originality, and clarity. The entire process, which includes the submission, review, and acceptance processes, was done electronically. This hard work resulted in the selection of high-quality papers that expand the knowledge in the latest developments in networks security and applications.

There were a total of 1,285 submissions to the conference, and the Technical Program Committee selected 195 papers for presentation at the conference and subsequent publication in the proceedings. The book is organized as a collection of papers from the 4th International Conference on Network Security and Applications (CNSA 2011), the Third International Conference on Networks and Communications (NeCoM 2011), the Third International Conference on Web and Semantic Technology (WeST 2011), the Third International Conference on
Wireless and Mobile Networks (WiMoN 2011), and the First International Conference on Advances in Computing and Information Technology (ACITY 2011). This small introduction incomplete would be without expressing our gratitude, and thanks to the General and Program Chairs, members of the Technical Program Committees, and external reviewers for their excellent and diligent work. Thanks to Springer for the strong support. Finally, we thank all the authors who contributed to the success of the conference. We also sincerely wish that all attendees benefited academically from the conference and wish them every success in their research.

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