

Preface

The First International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2014) took place during Apr 18–20, 2014 in Kolkata, India. This symposium is aimed to facilitate the Ph.D. students to present and discuss their research work leading towards high-quality dissertation. This symposium will provide a friendly and supportive environment for doctoral students to present and discuss their work both with their peers and with a panel of distinguished experts. ACSS Doctoral Symposium allowed researchers working in different fields of computer science such as Image processing, Remote Healthcare, Biometrics, Pattern Recognition, Embedded Systems, Data Mining, Software Engineering, Networking, and Network Security. The symposium evolved as a joint venture between two collaborative universities: the University of Calcutta, India, and the AGH University of Science and Technology, Poland.

The program committee members of ACSS 2014 were instrumental in disseminating the objectives of the symposium among the scholars and faculty members in a very short time. This resulted in a large number of submissions from Ph.D. scholars from India and abroad. These papers underwent a minute and detailed blind-review process with voluntary participation of the committee members and external expert reviewers. The metrics for reviewing the papers had been mainly the novelty of the contributions, technical content, organization, and clarity in presentation. The entire process of initial paper submission, review, and acceptance were done electronically. The hard work done by the Organizing and Technical Program Committees led to a superb technical program for the symposium. The ACSS 2014 resulted in high-impact and highly interactive presentations by the doctoral students.

The Technical Program Committee for the symposium has selected only 25 papers for publication out of a total 70 submissions. Session chairs were entrusted with the responsibility of submitting feedbacks for improvements of the papers presented. The symposium proceeding has been organized as a collection of papers, which were presented and then modified as per reviewer's and session chair's comments. This has helped the scholars to further improve their contributions.

We would like to take this opportunity to thank all the members of the Technical Program Committee and the external reviewers for their excellent and time-bound review works. We especially thank Prof. Indranil Sengupta of IIT, Kharagpur for his suggestions towards designing the Technical Program for ACSS-2014. We thank all our sponsors who have come forward towards organization of this symposium. These include Tata Consultancy Services (TCS), Springer India, ACM India, M/s Business Brio, M/s Enixs. We appreciate the initiative and support from Mr. Aninda Bose and Ms. Kamiya Khatter his colleagues in Springer for their strong support towards publishing this post-symposium book in the series “Advances in Intelligent Systems and Computing.” Last, but not the least, we thank all the authors without whom the symposium would not have reached up to this standard.

On behalf of the editorial team of ACSS 2014, we sincerely hope that the different chapters of this book will be beneficial to all its readers and motivate them towards further research.

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