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Khalid Saeed · Nabendu Chaki
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Advanced Computing and Systems for Security

Volume Nine

Springer

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Preface

This volume contains the revised and improved version of papers presented at the 6th International Doctoral Symposium on Applied Computation and Security Systems (ACSS 2019) which took place in Kolkata, India, during 12–13 March 2019. The University of Calcutta in collaboration with Ca' Foscari University of Venice, Italy, and Bialystok University of Technology, Poland, organized the symposium. This symposium is unique in its characteristic of providing Ph.D. scholars an opportunity to share the preliminary results of their work in an international context and be actively supported towards their first publication in a scientific volume.

In our pursuit of continuous excellence, we aim to include the emergent research domains in the scope of the symposium each year. This helps ACSS to stay in tune with the evolving research trends. The sixth year of the symposium was marked with a significant improvement in overall quality of papers, besides some very interesting papers in the domain of security and software engineering. We are grateful to the Programme Committee members for sharing their expertise and taking time off from their busy schedule to complete the review of the papers with utmost sincerity. The reviewers have pointed out the improvement areas for each paper they reviewed, and we believe that these suggestions would go a long way in improving the overall quality of research among the scholars. We have invited eminent researchers from academia and industry to chair the sessions which matched their research interests. As in previous years, the session chairs for each session had a prior go-through of each paper to be presented during the respective sessions. This is done to make it more interesting as we found deep involvement of the session chairs in mentoring the young scholars during their presentations.

The evolution of ACSS is an interesting process. We have noticed the emergence of security as a very important aspect of research, due to the overwhelming presence of IoT in every aspect of life.

The indexing initiatives from Springer have drawn a large number of high-quality submissions from scholars in India and abroad. ACSS continues with the tradition of the double-blind review process by the PC members and by external reviewers. The reviewers mainly considered the technical aspect and novelty of

each paper, besides the validation of each work. This being a doctoral symposium, the clarity of the presentation was also given importance.

The Technical Programme Committee for the symposium selected only 18 papers for publication out of 42 submissions.

We would like to take this opportunity to thank all the members of the Programme Committee and the external reviewers for their excellent and time-bound review works.

We thank the members of the Organizing Committee, whose sincere efforts before and during the symposium have resulted in a friendly and engaging event, where the discussions and suggestions during and after the paper presentations create a sense of community that is so important for supporting the growth of young researchers.

We thank Springer for sponsoring the Best Paper Award. We would also like to thank ACM for the continuous support towards the success of the symposium. We appreciate the initiative and support from Mr. Aninda Bose and his colleagues in Springer Nature for their strong support towards publishing this post-symposium book in the series "Advances in Intelligent Systems and Computing". Last but not 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 2019, we sincerely hope that ACSS 2019 and the works discussed in the symposium will be beneficial to all its readers and motivate them towards even better works.

Kolkata, India — Nabendu Chaki
Bialystok, Poland — Khalid Saeed
Kolkata, India — Rituparna Chaki
Venice, Italy — Agostino Cortesi

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