Lecture Notes in Computer Science 10717

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Information Systems Security

13th International Conference, ICISS 2017 Mumbai, India, December 16–20, 2017 Proceedings

Springer

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ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Computer Science
ISBN 978-3-319-72597-0 ISBN 978-3-319-72598-7 (eBook)
https://doi.org/10.1007/978-3-319-72598-7

Library of Congress Control Number: 2017961798

LNCS Sublibrary: SL4 – Security and Cryptology

Printed on acid-free paper

This Springer imprint is published by Springer Nature
The registered company is Springer International Publishing AG
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

This volume contains the papers selected for presentation at the 13th International Conference on Information Systems Security (ICISS 2017), held in Mumbai, Maharashtra, India, during December 16–20, 2017. In response to the call for papers of this edition, 73 submissions were received, and all submissions were evaluated on the basis of their significance, novelty, and technical quality. After an initial technical screening for relevance, 64 of the papers were reviewed by the Program Committee. The Program Committee, which comprised 52 members, performed an excellent task and with the help of additional reviewers all submissions went through a careful anonymous review process. Each paper was reviewed by three or more reviewers, and then discussed. The entire process was carried out electronically, and after intensive discussions, 16 full papers and seven short papers were selected for presentation at the conference, covering a range of topics including privacy, network security, systems security, security analysis, identity management, and access control, among others.

We were fortunate to have four eminent speakers delivering keynote presentations at the conference: Sushil Jajodia (George Mason University), Stefano Zatti (European Space Agency), Prof. Luigi Vincenzo Mancini (University of Rome), and Gulshan Rai (National Cyber Security Coordinator, India). It is indeed our pleasure to formally express our gratitude to these speakers who came from far off places under a tight schedule. We also thank Dr. Stefano Zatti (Head, of the ESA Security Office) and Prof. Luigi Mancini, who also contributed to the proceedings.

The success of ICISS 2017 depended on the volunteering effort of many individuals, and there is a long list of people who deserve special thanks. We would like to thank all the members of the Program Committee and all the external reviewers, for all their hard work in evaluating the papers and for their active participation in the discussion and selection process. We are very grateful to everyone who gave their assistance and ensured a smooth organization process, in particular the Steering Committee and Prof. Sushil Jajodia for his guidance and support as well as Yuan Hong (Publicity Chair) for helping with publicity. Special thanks go to the keynote speakers, who accepted our invitation to deliver keynote talks at the conference.

There were several tutorials and preconference workshops. This year there was the Second Workshop on Blockchain Technology: Platforms, Applications and Challenges on December 17, as well as several tutorials on topics such as access control, using mathematics for security, and AI and security.

It is a pleasure to thank the support from DST (JC Bose Fellowship to R. K. Shyamasundar) and the support of MEITY for the ISRDC center at IIT Bombay. We are thankful for the institutional support provided by IIT Bombay, in particular the support of the staff, faculty, and student volunteers of the Department of Computer Science and Engineering and the Department of Electrical Engineering. We appreciate the support of Springer, in particular Alfred Hofmann, in publishing the proceedings as well as monetarily supporting the best paper award for the conference. We would also

like to acknowledge EasyChair for their conference management system, which was freely used to manage the process of paper submissions and reviews. Last but certainly not least, we would like to thank all the authors who submitted papers and all the conference attendees. We hope you find the proceedings of ICISS 2017 interesting, stimulating, and inspiring for your future research.

November 2017

Rudrapatna K. Shyamasundar
Virendra Singh
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Sundararajan, Vaishnavi
Vairam, Prasanna Karthik
Veseli, Fatbardh
Wijesekera, Duminda
Yesuf, Ahmed Seid
Ying, Kailiang
Zhang, Bo

Contents