Preface

The 31st Annual International Conference on the Theory and Application of Cryptology and Information Security (Asiacrypt 2025) was held in Melbourne, Australia, on December 8–12, 2025. The conference covered all technical aspects of cryptology and was sponsored by the International Association for Cryptologic Research (IACR).

We received 533 paper submissions for Asiacrypt from around the world, which is exactly 100 more than last year's record-breaking number, setting a new all-time high. The Program Committee (PC) selected 143 papers for publication in the proceedings of the conference. As in the previous year, the Asiacrypt 2025 program had three tracks. Throughout the entire paper selection process, the ten Area Chairs made significant contributions. The two Program Co-Chairs express their sincere gratitude to all the Area Chairs. The area chairs were Chris Brzuska for Fundamentals, Complexity Theory, Sherman Chow for Real-World Cryptography, Steven Galbraith for Higher Mathematics in Cryptography, Naofumi Homma for Efficient and Secure Implementations, Feng-Hao Liu for Public-Key Primitives with Advanced Functionalities, Takahiro Matsuda for Multi-Party Computation and Zero-Knowledge, Manoj M. Prabhakaran for Information-theoretic Cryptography, Damien Stehlè for Fully Homomorphic Encryption Theory and Practice, Meigin Wang for Symmetric-Key Cryptography, Keita Xagawa for Postquantum Cryptography. The Area Chairs kindly recommended excellent candidates for PC members and, in collaboration with the Discussion Leads, consolidated the opinions of the PC members within their respective areas to reach consensus. They then presented important recommendations regarding the acceptance or rejection of each paper to the Program Co-Chairs. Furthermore, for submissions requiring additional reviews, they arranged for extra reviewers and, in some cases, conducted the reviews themselves. Beyond these dedicated contributions, they also provided many valuable insights and suggestions to support the Program Co-Chairs in making key decisions. We are deeply grateful for their tremendous efforts. For submissions that the Area Chairs could not handle due to conflicts of interest, we asked the following four individuals to serve as substitute Area Chairs: Christian Rechberger, Yu Sasaki, Renaud Sirdey, and Frederik Vercauteren. We also extend our sincere appreciation to them for their dedicated support.

To review and evaluate the submissions, while keeping the load per PC member manageable, we selected the PC members consisting of 117 leading experts from all over the world, in all ten topic areas of cryptology, and we also had approximately 443 external reviewers, whose input was critical to the selection of papers. The review process was conducted using double-blind peer review. The conference operated a two-round review system with a rebuttal phase. This year, we continued the interactive rebuttal from Asiacrypt 2024. After the reviews and first-round discussions, PC members and area chairs selected 318 submissions to

proceed to the second round. The remaining 215 papers were rejected, including 15 desk rejections. The authors were then invited to participate in a two-step interactive rebuttal phase, where the authors needed to submit a rebuttal in five days and then interact with the reviewers to address questions and concerns the following week. We believe the interactive form of the rebuttal encouraged discussions between the authors and the reviewers to clarify the concerns and contributions of the submissions and improved the review process. Then, after two weeks of second-round discussions (and more than two weeks of the shepherding process), the committee selected the final 143 papers to appear in these proceedings.

The PC nominated and voted for papers to receive the Best Paper Awards. The Best Theory Paper Award and the Best Early-Career Paper Award went to Tim Beyne and Michiel Verbauwhede for their paper "Integral cryptanalysis in characteristic p," the Best Practical Paper Award went to Charles Bouillaguet, Claire Delaplace, Mickaël Hamdad, and Damien Vergnaud for their paper "Practical cryptanalysis of pseudorandom correlation generators based on quasi-Abelian syndrome decoding," and the Best Early-Career Paper Award went to Thiago Bergamaschi and Naresh Boddu for their paper "On split-state quantum tamper detection." The authors of those three papers were invited to submit extended versions of their papers to the Journal of Cryptology. At Asiacrypt 2025, we are honored to have three Invited Talks delivered by Sherman Chow, Ron Steinfeld, and Peter Schwabe, respectively. We would like to express our sincere gratitude to these invited speakers as well. Following Asiacrypt 2024, we selected three PC members for the Distinguished PC Members Awards, nominated by the area chairs and program chairs. The Distinguished PC Members Awards went to Julia Kastner, Renaud Sirdey, and Jean-Pierre Tillich. As in the previous year, Asiacrypt 2025 included an artifact evaluation process. Authors of accepted papers were invited to submit associated artifacts, such as software or datasets, for archiving alongside their papers; 23 artifacts were submitted. Markku-Juhani O. Saarinen was the Artifact Chair and led an artifact evaluation committee of 12 members listed below. In the interactive review process between authors and reviewers, the goal was not just to evaluate artifacts but also to improve them. Artifacts that passed successfully through the artifact review process were publicly archived by the IACR at https://artifacts.iacr.org/.

Last, but not least, we would like to once again express our deep gratitude to everyone who contributed to Asiacrypt 2025. Without the diverse and extensive cooperation of all involved, the success of Asiacrypt 2025 would not have been possible. First and foremost, we sincerely thank all authors who submitted their valuable research results to Asiacrypt 2025. This year saw a significantly higher number of submissions than last year, and we understand that many authors may not have received the outcome they had hoped for despite the high quality of their work. To those authors as well, we extend our heartfelt thanks and wish them success in their future submissions. We also deeply appreciate the Area Chairs, PC members, and external reviewers, who actively engaged in discussions based on their highly specialized expertise to review this large volume of submissions. In



organizing Asiacrypt 2025, we received tremendous support from General Chair Joseph Liu and his organizing team. Despite the unexpectedly large number of presentations, they provided an excellent venue and arrangements, for which we are truly grateful. Additionally, we would like to thank Kevin McCurley and Kay McKelly for their meticulous support in managing the website and review system. We are also deeply grateful to Kai-Min Chung and Yu Sasaki, who, drawing on their experience as Program Co-Chairs of last year's Asiacrypt, provided extremely helpful advice as Chairs at Large & Emeritus. We are also grateful for the helpful advice and organizational material provided to us by Crypto 2024 Program Co-Chairs Leonid Reyzin and Douglas Stebila. We also thank the team at Springer for handling the publication of these conference proceedings.

December 2025

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