

Preface

The International Symposium on Research in Attacks, Intrusion, and Defenses (RAID) is celebrating its 20th anniversary this year! You have the proceedings of this event in your hands and we hope you will enjoy it.

RAID was created to offer a venue for researchers looking at the emerging field of intrusion detection. It was the follow up to the CMAD workshop (future directions in Computer Misuse and Anomaly Detection), which was held for the fourth and last time in 1996. CMAD was initiated by Becky Bace, who sadly passed away in 2017, and had approached intrusion detection from both an operational as well as from an “intelligence” point of view. RAID has grown in much the same spirit, expanding its scope beyond the sole intrusion detection area, encouraging research on real-world problems, fostering sound, thorough, and reproducible experiments, and building bridges to other communities (e.g., measurement, networking, systems) that share these same values. Twenty years later, RAID is a well-established international conference that enjoys truly worldwide recognition. Hosted every year in a different location, it has alternated between Europe and the USA with a few notable exceptions, including Australia (2007), Saint Lucia (2013), and Japan (2015).

This year, RAID 2017 received 105 admissible submissions of which 21 were accepted (20% acceptance rate). Each paper received at least 3 reviews and 43 papers (41%) received two additional reviews to settle disagreements between the first three reviewers, to answer questions raised during the online discussion phase, or to address issues brought forth by the authors’ rebuttal. As in previous years, a double blind reviewing process was used to ensure that the reviewers remained unaware of the authors’ names and affiliations during the discussion. The final decision for each paper was made during a face-to-face PC meeting following the IEEE Symposium on Security and Privacy in San Jose (CA), in May 2017. More than two thirds of the PC members attended that meeting.

The quality, diversity, and commitment of the Program Committee is paramount to the success of any conference and, with RAID, we have striven to broaden the pool of reviewers. Over the last ten years, an average of 50% of the members of the PC were changed from year to year. Furthermore, this year, nearly a third of the new PC members had never served on the RAID PC before, ensuring the healthy development of the community by reaching out to external experienced reviewers. It is also worth noting that RAID always tries to maintain a balance between industry and academia within its PC members, as well as between the various geographies. This year, around 75% of the PC members came from academia and 25% from industry. Approximately half of the members work in the USA, a bit less than a third in Europe, and the rest, 15%, were from the rest of the world, mostly Asia.

We endeavor to provide quality reviews to those who submit a paper to RAID and we try to provide constructive feedback when a paper is unfortunately rejected. In order to improve transparency, accepted papers are accompanied by a public summary,

which is available within the online proceedings as supplementary material. It briefly explains the reasons why a given paper has been accepted but also, sometimes, acknowledges some reservations expressed by members of the PC. We hope that these open summaries will encourage future researchers to address the limitations identified by the PC members and consider new directions for research.

In 2012, for the 15th anniversary of RAID, we began the process of awarding, every five years, an “influential paper” award to a previously published paper at RAID that has had a major influence on the community. This year’s award was given to the 2004 RAID paper by K. Wang and S.J. Stolfo, entitled “Anomalous Payload-Based network intrusion detection.” That paper has been cited 869 times since its publication, which is an average of 67 times per year, every year, since its publication, the highest yearly average for every paper published at RAID since its creation.

RAID wouldn’t exist without the dedication of the reviewers, who play a special role and spend a great deal of time reviewing papers, discussing them online, attending the PC meeting, shepherding papers, etc. To express our gratitude to them, every year RAID awards an “Outstanding Reviewer” prize. The winner is selected based on a number of factors: the quality of the reviews as judged by the other reviewers (usefulness, technical depth, etc.), timeliness of the reviews, participation in the online discussion and the face-to-face meeting, and the willingness to defend papers as opposed to quickly discard them. While we had a difficult time identifying a winner amongst so many excellent reviewers, it is with great pleasure that we announce that this year the award goes to Jon Giffin, from Hewlett Packard Enterprise.

RAID only exists because of the community that supports it. Indeed, RAID is completely self-funded. Every organizer independently shoulders the financial risks associated with its organization. The sponsors, therefore, play a very important role and ensure that the registration fees remain very reasonable. Therefore, we want to take this opportunity to thank Spamhaus and Comcast for their generous sponsorships of RAID 2017. We, of course, are very grateful to the general chair, Manos Antonakakis, from Georgia Tech, and his assembled team for ensuring that the conference ran smoothly. Special thanks go to the local arrangement chair, Roberto Perdisci, University of Georgia; to the publication chair, Michalis Polychronakis, from Stony Brook University; to the publicity chair, Nick Nikiforakis, from Stony Brook University; to the sponsor chair, Yacin Nadjji, from Georgia Tech; to the local infrastructure chair, William R. Garrison, from Georgia Tech; and to the poster chair and webmaster, Chaz Lever, from Georgia Tech.

Happy Birthday, RAID. We all look forward for many more years to come.

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