

5TH ANNUAL BEST SCIENTIFIC CYBERSECURITY PAPER COMPETITION

About the Competition

In order to encourage the development of the scientific foundations of cybersecurity, the National Security Agency (NSA) established The Annual Best Scientific Cybersecurity Paper Competition. NSA invites nominations of papers that show an outstanding contribution to cybersecurity science. A set of distinguished experts will review the submitted nominations and provide individual assessments to the NSA Research Directorate. Awardees will be invited to NSA to receive the award and present the winning paper to an audience of cybersecurity experts.

2016 Winning Paper

The 4th competition winning paper is **Nomad: Mitigating Arbitrary Cloud Side Channels via Provider-Assisted Migration** by Soo-Jin Moon, Vyas Sekar and Michael Reiter from Carnegie Mellon University and University of North Carolina. It was presented at Association for Computer Machinery (ACM) Conference on Computer and Communications Security (CCS 15).

2016 Honorable Mentions

Quantum-Secure Covert Communication on Bosonic Channels. This paper in Nature Communications was written by a team of researchers at University of Massachusetts, Amherst and Raytheon. The researchers are: Boulat A. Bash, Andrei H. Gheorghe, Monika Patel, Jonathan L. Habif, Dennis Goeckel, Don Towsley, and Saikat Guha.

Increasing Cybersecurity Investments in Private Sector Firms was written by a research group at the University of Maryland, College Park. The team members are Lawrence Gordon, Martin Loeb, William Luchshyn and Lei Zhou. It was published in a fairly new journal on cross discipline cybersecurity issues, the Journal of Cybersecurity.

2016 Evaluation Team

The following individuals have agreed to serve as distinguished experts for the 4th annual competition:

Dr. Whitfield Diffie, Cybersecurity Advisor
Dr. Dan Geer, In-Q-Tel
Dr. John McLean, Naval Research Laboratory
Prof. Angela Sasse, University College London
Prof. Fred Schneider, Cornell University
Mr. Phil Venables, Goldman Sachs
Prof. David Wagner, University California at Berkeley
Dr. Jeannette Wing, Microsoft Research

NSA Competition Leads

Dr. Deborah Frincke - NSA Director of Research
Dr. Adam Tagert - Science of Security Technical Director
NSA Information Assurance Research

Nominations and Eligibility

Nominations should include, in 500 words or less, a nomination statement describing the scientific contribution of the paper and explaining why this paper merits the award. A strong nomination statement is desired and will be used as part of the criteria when evaluating paper submissions. Nominated papers must be available in English and pdf format. The nominator may not be an author or co-author of the nominated paper.

Nominate any paper that exhibits **outstanding contribution** to cybersecurity science and published in peer-reviewed journals, magazines, or technical conferences between

Jan. 1st 2016 and Dec. 31st 2016

Submit nominations by **Mar 31st, 2017** to:
sos-vo.org/papercompetition

