Science of Security and Privacy

SCIENCE OF SECURITY

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Science of Security Research Initiative

The National Security Agency Science of Security (SoS) Research Initiative strives to establish a self-sustaining discipline that develops scientific foundations needed to mature the cyber defense corpus to meet the ever rising cyber threats. The Initiative has three main thrusts: first, engaging the academic community for foundational research; second, promoting rigorous scientific principles in research; and third, growing the SoS Community.

More information about all of the activities associated with the Science of Security (SoS) initiative over the past year can be found in the 2015 SoS Annual Report: http://cps-vo.org/sos/annualreport2016

NC STATE UNIVERSITY

ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Science of Security
LABLETS

UNIVERSITY OF MARYLAND

Carnegie Mellon University



http://cps-vo.org/NSA-SoS-research#Lablets

SURE

The SoS Project on the Science of SecUre and REsilient Cyber-Physical Systems (SURE) is focused on having the academic community (with Vanderbilt University being a focal point) develop scientific foundations and tools for designing, building, and assuring cyber-physical systems/Internet-of-Things that can maintain essential system properties in the presence of adversaries.

http://sos-vo.org/sure

THE BEST SCIENTIFIC CYBERSECURITY PAPER *COMPETITION*

The Best Scientific Paper Competition is sponsored by the NSA Research Directorate to promote rigorous research methods by identifying and highlighting excellence. The competition is open to all authors and nominated papers are evaluated by a panel of distinguished experts in cybersecurity. Winners are invited to NSA for recognition and to present their research.

http://sos-vo.org/papercompetition

FIVE HARD PROBLEMS

- SCALABILITY & COMPOSABILITY
- POLICY-GOVERNED SECURE COLLABORATION
- SECURITY-METRICS-DRIVEN EVALUATION, DESIGN, DEVELOPMENT, & DEPLOYMENT
- UNDERSTANDING & ACCOUNTING FOR HUMAN BEHAVIOR
- RESILIENT ARCHITECTURES

http://sos-vo.org/hardproblems

HOTSOS
HOT TOPICS in the SCIENCE OF SECURITY
SYMPOSIUM & BOOTCAMP

HoTSoS *Symposium and Bootcamp*
HOT TOPICS *in the* **SCIENCE OF SECURITY**

Hot-SoS is the premier annual public event of the SoS Community that supports all tenants of SoS. It draws the diverse research community (academia, government and industry) to presentations of new SoS Research, workshops, and the ability to engage with other SoS members. As the event is co-sponsored with ACM, accepted research is peer-reviewed and published by ACM.

http://hot-sos.com

SoS Impact

171 Institutions | 5 Continents | 27 Countries

- Abu Dhabi
- Australia
- Belgium
- Brazil
- Canada
- China
- England
- France
- Germany
- Greece
- Iran
- Israel
- Italy
- Japan
- Netherlands
- New Zealand
- Norway
- Pakistan
- Poland
- Portugal
- Romania
- Singapore
- Spain
- Sweden
- Switzerland
- United States
- Wales

http://sos-vo.org/map