

# HCSS 2020 Program Agenda

Submitted by Katie Dey on Sat, 08/29/2020 - 11:49am

[Monday](#) | [Tuesday](#) | [Wednesday](#) | [Thursday](#)

## PROGRAM AGENDA

### MONDAY, SEPTEMBER 14

*Theme: Architecture-level Formal Methods for New and Existing Systems*

1100 - 1145

#### [PANEL: HCSS 20th Anniversary Reflections](#)

Mark Jones (Portland State University)

John Launchbury (Galois)

Brad Martin (NSA)

Matt Wilding (Collins Aerospace)

1145 - 1215

#### [Run-Time Assurance Architecture for Learning-Enabled](#)

Darren Cofer (Collins Aerospace)

1215 - 1300

**BREAK**

1300 - 1330

#### [KEYNOTE:](#)

[IDAS: Intent-Defined Adaptive Software](#)

[ARCOS: Automated Rapid Certification of Software](#)

Ray Richards (DARPA)

1330 - 1400

#### [Actionable definition of Safety Design Patterns using AA](#)

Jérôme Hugues (CMU/SEI)

1400 - 1430

**BREAK**

1430 - 1530

#### [KEYNOTE: Take a SEAT: Security-Enhancing Architecture](#)

Konrad Slind (Collins Aerospace)

1530 - 1600

#### [A Verified Optimizer for Quantum Circuits](#)

Robert Rand (University of Chicago)

1600 - 1630

#### [Cryptographic Protocol Verification in AWS](#)

Adam Petcher (Amazon Web Services)

1630 - 1700

NETWORKING

**TUESDAY, SEPTEMBER 15**

*Theme: Cognitive Security*

1100 - 1200

**KEYNOTE: Trustworthy AI**

Jeannette Wing (Columbia)

1200 - 1230

**Improving Computer Security by Understanding Cognitive**

Kimberly Ferguson-Walter (National Security Agency's Labo

1230 - 1315

**BREAK**

1315 - 1400

**The Changing Face of Computational Propaganda:  
AI, Encryption, Geofencing and the Manipulation of Public**

Samuel Woolley (University of Texas, Austin)

1400 - 1530

**POSTER & NETWORKING SESSION**

**WEDNESDAY, SEPTEMBER 16**

*Theme: Formal Methods at Scale*

1100 - 1200

**PANEL: FM@Scale Workshop Summary**

Patrick Lincoln (SRI)

Brad Martin (NSA)

William Scherlis (DARPA)

1200 - 1230

**Integration Challenges in Static Analysis and Verification**

Stephen Magill (MuseDev)

1230 - 1315

**BREAK**

1315 - 1345

**Formal Verification of Production Distributed Protocols**

Mike Dodds (Galois)

1345 - 1415

**Verifying C++ at Scale**

Gregory Malecha (BedRock Systems)

1415 - 1445

**Analysis of the Secure Remote Password Protocol Using**

Erin Lanus (Virginia Tech)

1445 - 1530

**BREAK**

1530 - 1600

[3C: Interactive Conversion of C to Checked C](#)

Michael Hicks (Correct Computation Inc. / University of Maryland)

1600 - 1630

[Adapting to demand: seL4 proofs and proof engineering](#)

Matthew Brecknell (Data61, CSIRO, Australia)

1630 - 1700

NETWORKING

**THURSDAY, SEPTEMBER 17**

*Theme: Formal Methods at Scale*

1100 - 1200

[KEYNOTE: Distributed and Trustworthy Automated Reasoning](#)

Marijn Heule (Carnegie Mellon University)

1200 - 1230

[Geometric Path Enumeration Methods for Verifying ReLU Networks](#)

Stanley Bak (Stony Brook University / Safe Sky Analytics)

1230 - 1315

BREAK

1315 - 1345

[Verification is Engineering](#)

Joey Dodds (Galois)

1345 - 1415

[End-to-End Verification of Initial and Transition Properties](#)

Laura Humphrey (Air Force Research Laboratory)

1415 - 1445

[Scalable Sound Static Analysis of Real-world C Applications](#)

Henny Sipma (Kestrel Technology)

Paul E. Black (NIST)

1445 - 1530

BREAK

1530 - 1600

[Automated Analysis of AWS Access Control](#)

Andrew Gacek (Amazon Web Services)

1600 - 1630

[Code-Level Model Checking in the Software Development Lifecycle](#)

Daniel Schwartz-Narbonne (Amazon Web Services)

1630 - 1700

NETWORKING

**CONFERENCE ADJOURNED**



[HCSS Conference 2020 Agenda](#)

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