HCSS Archives

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2020 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The twentieth annual HCSS Conference will be virtually held September 14-17, 2020. Daily themes for the program are Formal Methods at Scale, Architecture-level Formal Methods for New and Existing Systems, and Human/Machine Cognitive Security. The program agenda for the upcoming conference will be posted shortly. The 2020 Co-Chairs are June Andronick (Trustworthy Systems group, CSIRO, UNSW Sydney) and Dr. Eric W. Smith (Kestrel Institute).

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2019 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The nineteenth annual HCSS Conference was held at the Historic Inns of Annapolis in Annapolis, Maryland from April 29 - May 1, 2019. Themes of the 2019 conference were Semantics-Driven Testing, Hardware Software Coassurance, and Automated Software Certification with keynotes Dan Guido (Trail of Bits), Magnus Myreen (Chalmers University of Technology), and Ray Richards (DARPA) presenting. Eric Smith (Kestrel Institute) and Matt Wilding (Collins Aerospace) served as the 2019 HCSS Co-Chairs.

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2018 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

HCSS’s eighteenth annual conference was held on May 7 - 9, 2018 at the Historic Inns of Annapolis in Annapolis, Maryland. Discussions centered around the major conference themes selected for the 2018 year: Complex Heterogeneous Systems, Trusting Autonomy, and Blockchain Assurance. Sandeep Neema (DARPA), Peter H. Feiler (SEI), and Emin Gün Sirer (Cornell) were selected as the 2018 keynote presenters, with Perry Alexander (University of Kansas) and Matt Wilding (Rockwell Collins) serving as the 2018 Co-Chairs.

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2017 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

In its seventeenth year, the HCSS Conference was once more held at the Historic Inns of Annapolis in Annapolis, Maryland on May 8 - 10, 2017. Conversations for the year centered around four chosen themes: Privacy, Assurance for AI, Industrialization of Formal Methods, and Technology and Model Cross-over. The
keynotes for the 2017 year were Ray Richards (DARPA), Naomi Lefkovitz (NIST), John Launchbury (DARPA), Aaron Roth (UPenn), and Evan Fortunato (Apogee Research). Perry Alexander (University of Kansas) and Stephen Magill (Galois, Inc.) served as Co-Chairs for the conference.

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2016 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The sixteenth annual HCSS Conference was held May 10 - 12, 2016 at the Historic Inns of Annapolis in Annapolis, Maryland. Sagar Chaki (CMU-SEI), Fred B. Schneider (Cornell), Kathryn McKinley (Microsoft Research), and Robert Bonneau (OSD) were that year’s keynotes and spoke on a variety of topics surrounding the 2016 conference themes of Measuring Security, Proofs that Cross IP Boundaries, Programming and Reasoning With Uncertainty, and Verification of Autonomous and Adaptive Systems. Acting Co-Chairs were Kathleen Fisher (Tufts University) and Stephen Magill (Galois).

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2015 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

In it’s fifteenth year, the annual HCSS Conference focused its sites on addressing three key conference themes. Those themes were Proof Engineering, Sustainable Integrity, and Privacy. Gerwin Klein (NICTA), Tim Fraser (DARPA), and Shantanu Rane (PARC) were chosen to give keynote presentations, and Kathleen Fisher (Tufts University) and John Hatcliff (Kansas State University) were chosen as 2015’s HCSS Conference Co-Chairs. The 2015 HCSS Conference was held at the Historic Inns of Annapolis in Annapolis, Maryland from May 5-7, 2015.

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2014 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The fourteenth annual HCSS Conference was held from May 6 - 8, 2014 at the Historic Inns of Annapolis in Annapolis, Maryland. Travis Breaux (CMU), Neal Ziring (NSA) and Geoffrey Ling (DARPA) were asked to give keynote presentations on the chosen conference themes of Requirements and Specifications, Reasoning about Control, and Mobility. Byron Cook (Microsoft Research) and John Hatcliff (Kansas State University) served as the 2014 Co-Chairs.

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2013 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The thirteenth annual HCSS Conference was held May 7 - 10, 2013 at the Historic Inns of Annapolis in Annapolis, Maryland. Automatic theorem proving and SMT, Javascript, and Boundary between Hardware and Software were the central
conference themes. The year saw a multitude of keynote speakers: Nikhil Swamy (Microsoft Research), Susan Alexander (IARPA), Shriram Krishnamurthi (Brown University), Nikolaj Bjørner (Microsoft Research), Dan Kaufman, (DARPA), Greg Morrisett (Harvard University), and Joseph C. Opacki (FBI). Byron Cook (Microsoft Research) and Ray Richards (Rockwell Collins) were designated as the conference Co-Chairs.

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2012 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

NSA’s twelfth annual HCSS Conference was held from May 6-11, 2012 at the Historic Inns of Annapolis in Annapolis, Maryland. Themes for the year were Technology Transfer, Formal Synthesis, and Compositional Reasoning. John Launchbury (Galois) and Ray Richards (Rockwell Collins) served as the 2012 Co-Chairs. Dawn Meyerriecks (ODNI), Markus Püschel (ETH Zurich), Byron Cook (Microsoft Research), Jules Villard (University College London), William Sanders (University of Illinois Urbana-Champaign), and Bill Scherlis (Carnegie Mellon University) were selected to give keynote presentations.

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2011 HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE

The eleventh annual HCSS Conference took place from May 2 - 6, 2011 at the Historic Inns of Annapolis in Annapolis, Maryland. Xavier Leroy (INRIA), Edward A. Lee (UC Berkeley) George Pappas (University of Pennsylvania), Bill Sanders (UIUC), Marc Dacier (Symantec Research Labs - Europe), and Jeff Williams (Aspect Security) were the 2011 keynote presenters. The themes for the 2011 conference were Evidence, Cyber-Physical Systems, Science of Security, and HCSS/CAS Tools and Technologies. The conference Co-Chairs were John Launchbury (Galois) and Bill Scherlis (CMU).

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HIGH CONFIDENCE SOFTWARE AND SYSTEMS CONFERENCE 2001 - 2010

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