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Plenary Panel

Who Trumps Who: Security (SE) or Reliability (RE)?

Moderator

Jeff Voas (National Institute of Standards and Technology)

Panelists

Bret Michael (Naval Postgraduate School)

Angelos Stavrou (George Mason University)

Paul E. Black (National Institute of Standards and Technology)

Phil Laplante (Penn State University)

Jeffery Payne (Coveros)

Stephen S. Yau (Arizona State University)

The purpose of this panel is to spark controversy since the title of the panel is a rhetorical question. In certain cases, SE trumps RE, and vice versa. For example, the finest reliability engineering for an aircraft cannot overcome the effects of lax security that allows for a bomb onboard.

The reason for posing the question is that SE and RE are only two of many “ilities.” Today, privacy (P) is quickly entering into the discussion, and therefore we could modify the title to “who trumps who: security or privacy?”, particularly when questions are asked such as “if there’s no anonymous data, does privacy mean security.” The panelists will discuss their views on both the panel title and this alternate title, and present their arguments for what subsumes what, and whether a “subsumes” hierarchy is reasonable to discuss. The goal is to highlight how SE, RE, and P affect all aspects of assurance and trust of data and computing, and what the trade-offs between the three are.

Each Panelist will make a 7-10 minute opening statement on their position on this topic, and then the panel will open up for Q&A. All panelists are confirmed.

About the Moderator

Jeffrey Voas is a computer scientist at the US National Institute of Standards and Technology (NIST) in Gaithersburg, MD. Before joining NIST, Voas was an entrepreneur and co-founded Cigital (1992). After 13 years at Cigital, Voas accepted a director position at Science Applications International Corporation (SAIC) and was named an SAIC Technical Fellow (2005-2009). Voas co-authored two John Wiley books (Software Assessment: Reliability, Safety, and Testability [1995] and Software Fault Injection: Inoculating Software Against Errors [1998]). He received two U.S. patents and has over 200 publications. Voas received his undergraduate degree in computer engineering from Tulane University (1985), and received his M.S. and Ph.D. in computer science from the College of William and Mary (1986, 1990 respectively). Voas performed a two-year post-doc for the National Research Council (1990-1992). Voas is a Fellow of the American Association for the Advancement of Science.