

2nd Annual New England Faculty Summit on Cyber Security

Boston University, June 18, 2012

Sponsored by

Rafik B. Hariri Institute for Computing and
Computational Science & Engineering
at Boston University

The Center for Reliable Information
Systems and Cyber Security
at Boston University

PROGRAM

- 09:30 Breakfast and registration
- 09:50 Azer Bestavros (BU) – Welcome
- 10:00 Latanya Sweeney (Harvard) – Can Technology Save Privacy?
- 10:40 Sрни Devadas (MIT) – Challenges in Outsourcing Private Computation
- 11:20 Break
- 11:30 Rick Welch (ACSC) – Update on the Advanced Cyber Security Center (ACSC)
- 11:50 Azer Bestavros (BU) – Faculty Summit Updates and Progress
- 12:10 Lunch
- 01:00 Panel – Challenges in Cyber Security Education.
Panelists: David Luzzi (Northeastern), Tanya Zlateva (BU), Chris Eng (Veracode), John Savage (Brown). Moderator: Win Treese (BU).
- 02:00 Breakout Discussions (see handout) – Groups to discuss provocative propositions on:
- Cybersecurity Education
 - Socio-Economic Aspects of Cybersecurity
 - Technological Drivers of Cybersecurity
 - Basic versus Applied Research in Cybersecurity
- 03:20 Break
- 03:30 Reports from breakout discussions
- 04:00 Reception at the Hariri Institute (111 Cummington Street)

Wireless Internet access is available:

SSID: BU Guest

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Plenary Research Talks

Can Technology Save Privacy?

Latanya Sweeney, Harvard University

Traditional privacy safeguards for data sharing are rooted in consent and de-identification and past approaches seem ineffective in today's data rich networked society. Popular applications, like those of Facebook and Google, trade personal data for services, and are acquiring unprecedented amounts of personal information. To some, privacy seems lost already. But even though technology challenges privacy, technology can also save privacy. Recent scientific advances and technical innovations enable new ways of thinking about privacy so that privacy itself can leverage technical advancement. The promise from doing so is that society will not be bound by the false belief that society must choose between privacy and technology, but instead, society will be able to enjoy both privacy and technology. In this talk, we will examine some new models and projects.

Challenges in Outsourcing Private Computation

Srini Devadas, MIT

Outsourcing computation to the cloud or other service providers is becoming more prevalent. However, many organizations are leery of outsourcing their computation to others because their data that is computed upon is sensitive and they do not wish it to leak. There are methods available to guarantee privacy of data in outsourced computation that involve the use of cryptographic techniques or trusted hardware. However, currently available techniques either suffer from assuming too large a trusted computing base or have too high overheads. We will describe the challenges and potential solutions in efficient outsourcing of private computation.