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ITI Workshop Draws International Experts to Discuss Trusted Information Systems

URBANA, Il. – Experts in information security and dependability from around the world will converge at the University of Illinois at Urbana-Champaign on Friday, December 3, 2004, to participate in the first ITI Workshop on Dependability and Security: Opportunities and Challenges in Building an Overarching Community. The one-day workshop, being held at the Coordinated Science Laboratory (CSL; 1308 W. Main St., Urbana), is sponsored by the newly created Information Trust Institute (ITI) at Illinois.

According to ITI Director William H. Sanders and CSL Director Ravi Iyer, this workshop provides an important forum for leading academics and industry researchers from around the world to speak to the challenges and opportunities in dependable and secure computing.

"Because of the importance and complexity of the field of trusted information systems, we have been able to attract a broad range of experts to discuss dependability and security issues," Sanders said. "Although this is our first such workshop, over 150 individuals have registered to date." He stated that the explosive growth in the number and complexity of computing systems requiring dependability and security in their operation is one of the most striking features of our technological and social landscape.

Iyer explained that dependability and security are understood as a system's general worthiness of being relied upon and trusted to the extent required, even under extreme conditions.

"Dependability involves the relevant application and system qualities, including fault tolerance, availability, performability, and robustness," he said. "Security, with its classic foundations in cryptography, involves issues relating to intrusion detection and tolerance, authentication, and firewall designs, as well as security-related protocols, modeling, and benchmarking."

"The expectation that modern, vast computing systems will be highly available and secure despite accidental failures and malicious attacks constitutes a major challenge for researchers, developers, and managers in the computing field," Sanders added.

The Information Trust Institute provides national leadership combining research and education with industrial outreach in trustworthy information systems. The Institute brings together academic researchers and industry partners to conduct foundational research to enable the creation of critical applications and cyber infrastructures.

In doing so, ITI is creating computer systems, software, and networks that society can depend on to be trustworthy, that is, to be secure, dependable (reliable and available), correct, safe, private, and survivable. Instead of concentrating on narrow and focused technical solutions (which will quickly become outdated), ITI aims to create a new

paradigm for designing trustworthy systems from the ground up and validating systems that are intended to be trustworthy to determine whether they are indeed trustworthy.

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Workshop schedule:

7:30 a.m. - Welcome by William H. Sanders, director, Information Trust Institute, and Ravi Iyer, director, Coordinated Science Laboratory.

7:45 a.m. – "Grand challenges and open questions in trusted systems." Panel includes: Steve Bellovin, AT&T Labs; Carl Landwehr, National Science Foundation; Jean-Claude Laprie, LAAS-CNRS; Roy Maxion, Carnegie Mellon; and Ravi Iyer, moderator.

9:30 a.m. - Session 1: "Addressing trustworthiness in design." Panel includes: Elisa Bertino, Purdue University and University of Milano; Mootaz Elnozahy, IBM Austin; Virgil Gligor, University of Maryland; Michael Waidner, IBM Zurich; and Roy Campbell, UIUC, moderator.

11:00 a.m. - Lunch & poster session

12:30 p.m. - Session 2: "Assessing and validating trust in systems and networks." Panel includes: Catherine Meadows, Naval Research Lab; Andre Schiper, École Polytechnique Fédérale de Lausanne; Neeraj Suri, TU Darmstadt; Kishor Trivedi, Duke University; and Carl Gunter, UIUC, moderator.

For further information, see: www.iti.uiuc.edu.

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