Spring 2014 Distinguished Lecture

Temple University
Computer and Information Sciences

IEEE Computer Society Philadelphia Chapter

The Cryptographic Lens

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Abstract:
Going beyond the basic challenge of private communication, in the last 35 years, cryptography has become the general study of correctness and privacy of computation in the presence of a computationally bounded adversary, and as such has changed how we think of proofs, reductions, randomness, secrets, and information. In this talk I will discuss some beautiful developments in the theory of computing through this cryptographic lens, and the role cryptography can play in the next successful shift from local to global computation.

Bio:
Dr. Shafi Goldwasser is the RSA Professor of Electrical Engineering and Computer Science at MIT. She is also a professor of computer science and applied mathematics at the Weizmann Institute of Science in Israel. Goldwasser received a BS degree in applied mathematics from Carnegie Mellon University in 1979, and MS and PhD degrees in computer science from the University of California, Berkeley, in 1984.

Dr. Shafi Goldwasser was the recipient of the Gödel Prize in 1993 and another in 2001 for her work on interactive proofs and connections to approximation. She was awarded the ACM Grace Murray Hopper award, the RSA award in mathematics, the ACM Athena award for women in computer science, the Benjamin Franklin Medal in Computer and Cognitive Science, the IEEE Emanuel R. Piore award, and the ACM Turing Award for 2012. She is a member of the AAAS, NAS and NAE.