

Computer Science Seminar Series

National Capital Region

Data Protection in the Cloud

Speaker: Prof. Pierangela Samarati

University of Milan

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1:00PM- 2:00PM

NVC 207, Blacksburg CRC KW II 1110

Abstract

Cloud computing is changing the way we access, manage, and use data and services. While convenient for functionalities and economy of scale, cloud computing clearly raises data protection issues. In fact, data are stored and managed outside the direct control of their data owner by external parties that may not be fully trusted and may not be entitled to know the actual data themselves. The problem of ensuring confidentiality and integrity entails therefore new challenges in the cloud scenario. In this talk, I will provide a characterization of such challenges and related open problems, as well as of emerging directions for ensuring security and privacy to data and users in the cloud.

Biography



Pierangela Samarati is a Professor at the Department of Computer Science of the Università degli Studi di Milano. Her main research interests are access control policies, models and systems, data security and privacy, information system security, and information protection in general. She has participated in several projects involving different aspects of information protection. On these topics she has published more than 230 peer-reviewed articles in international journals, conference proceedings, and book chapters. She has been Computer Scientist in the Computer Science Laboratory at

SRI, CA (USA). She has been a visiting researcher at the Computer Science Department of Stanford University, CA (USA), and at the ISSE Department of George Mason University, VA (USA). She is the chair of the IEEE Systems Council Technical Committee on Security and Privacy in Complex Information Systems (TCSPCIS), of the Steering Committees of the European Symposium on Research in Computer Security (ESORICS), and of the ACM Workshop on Privacy in the Electronic Society (WPES). She is member of several steering committees. She is ACM Distinguished Scientist (named 2009) and IEEE Fellow (named 2012). She has been awarded the IFIP TC11 Kristian Beckman award (2008) and the IFIP WG 11.3 Outstanding Research Contributions Award (2012).