

Computer Science Seminar Series

National Capital Region

Usable Trust Management and Its Applications

Speaker: Prof. Zheng Yan

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1:00PM- 2:00PM, NVC 325

Abstract

Trust management has been emerging as a promising technology to facilitate collaboration among entities in an environment where traditional security technologies cannot provide an effective solution. However, prior art lacks study on usable and autonomic means to satisfy both the subjective and dynamic nature of trust, especially in mobile domain. Existing solutions are often hard to be accepted by users and widely applied in practice. Few studies examined trust from the view of trust behaviors although numerous researchers have conceptualized trust as a behavior. This talk explores the significance of usable and autonomic trust management (UATM) study and mainly reports our previous research results on usable trust management. Concretely, I will present the research conducted in the Nokia research center, Finland, Aalto University, Finland and Xidian University, China with regard to usable trust management for mobile applications based on usage trust behaviors and in pervasive social networking based on social behaviors.

Biography



Zheng Yan is currently a professor at the Xidian University, China and a docent at the Aalto University, Finland. Before joining academia in 2011, she worked as a senior researcher at the Nokia Research Center, Helsinki since 2000. She has participated in and led more than 20 projects, including EU projects, Finnish TEKES projects, international cooperation projects, Nokia projects, and academic research projects. She authored about 70 peer-reviewed papers (first authored more than 50) and solely authored two books about trust modeling and management. She is the inventor of 26 patents and patent applications, including 15 sole inventions. Some patented inventions have been applied in industrial standards, such as DVB-CPCM, ISO/IEC M3W and TCG. Her current research interests are in trust, privacy, and security. She serves as an editor and editorial board member for 3 international journals, a leading guest editor of 5 reputable international journals, an organization committee member for 18 international conferences and workshops, and a technical program committee member for more than 40 conferences. She is a specially recruited expert of Shaanxi province, China and achieved several outstanding leadership awards in recent years due to international conference organization. Contact her at zyan@xidian.edu.cn; zheng.yan@aalto.fi.