

Security and Privacy in Cyber-Physical Systems

Dia 12/05/2017 das 10:30 às 11:30 horas Sala H- 301

Abstract: In the last decade, advances in embedded systems and communication networks have help us modernize our physical infrastructure systems like the power grid and transportation systems. These modern infrastructures are usually called cyber-physical systems (CPS) and they bring several advantages to society; however, these modern infrastructures are changing the way we interact with our environment and raising new security and privacy questions. In this talk we will discuss the new and fundamentally unique challenges for securing cyber-physical systems. We will discuss in particular our research on network security monitoring for industrial control networks, and some of the challenging problems for IoT privacy.



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Alvaro A. Cardenas is an Assistant Professor at the Department of Computer Science at the University of Texas at Dallas. He holds M.S. and Ph.D. degrees from the University of Maryland, College Park. Before joining UT Dallas he was a postdoctoral scholar at the University of California, Berkeley, and a research staff at Fujitsu Laboratories of America in Sunnyvale California. He has also been an intern at INRIA-LORIA in

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His research interests focus on cyber-physical systems and IoT security and privacy. He is the recipient of the NSF CAREER award, best paper awards from the IEEE Smart Grid Communications Conference and the U.S. Army Research Conference, and a Fellowship from the University of Maryland