

Title: Secure and Trustworthy Cyber-Physical Systems

Abstract: Cyber-physical systems (CPS) are transforming the way people interact with engineered systems. However, CPS are subject to cybersecurity and privacy threats stemming from the increased reliance on information and communication technologies (ICT) and the increased complexity and connectivity of critical infrastructure systems. In this talk, I will present my two representative projects on secure and trustworthy CPS: one is attack-resistant trust management (ART) for transportation CPS, and the other is cloud-centric, multi-level authentication as a service (CMULA) for public safety CPS. Next I will talk about my future research vision in the areas of cybersecurity and privacy. After discussing my teaching interests, I will conclude my talk by identifying potential funding opportunities and potential collaborators within NMSU and beyond.