

# Securing Cyber-Physical Systems

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Cyber-physical systems, which use computer programs to control and supervise physical processes, are becoming increasingly connected to external networks and to the Internet to increase their operational efficiency. Such connectivity exposes these systems, which are often safety-critical, to malicious parties who have shown to be quite capable of remotely compromising critical infrastructure and subsequently causing real physical damage. In this short talk, I will present our most recent research findings about closely monitoring these systems in real time to detect intrusions and malicious manipulation at the process level. I will particularly highlight recent advances in our proposed methodology and the applicability of our approach to modern vehicles.