Wednesday, April 10th, 2019
2 pm- 3 pm
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Ghost Cars and Fake Obstacles: Automated Security Analysis of Emerging Smart Transportation Systems
By Qi Alfred Chen

Transportation systems today will soon be transformed profoundly due to two recent technology advances: Connected Vehicle (CV) and Autonomous Vehicle (AV). Such transformation leads to the creation of a series of next-generation transportation systems which can substantially improve the quality of our everyday life. However, this also brings new features and operation modes into the transportation ecosystem, e.g., network connectivity and machine learning based sensing, which may introduce new security problem and challenges. In this talk, I will describe my current research that initiates the first effort towards systematically understanding the robustness of the software-based control in CV and AV systems.

Qi Alfred Chen is an Assistant Professor in the Department of Computer Science at UCI. His research interest is network and systems security, and addressing security challenges through systematic problem analysis and mitigation. His work has high impact in both academic and industry with over 10 top-tier conference papers, a DHS US-CERT alert, multiple CVEs, and over 50 news articles by major news media such as Fortune and BBC News.

RSVP required