



Workshop on Science of Security through Software-Defined Networking
McCormick Tribune Campus Center
Illinois Institute of Technology
Chicago, IL
June 16-17, 2016

Thursday, June 16, 2016

8:00 am	Breakfast McCormick Tribune Campus Center Ballroom
9:00 am	Welcome Kevin Jin , Assistant Professor of Computer Science, College of Science, Illinois Institute of Technology Sibin Mohan , Research Assistant Professor, Information Trust Institute, University of Illinois at Urbana-Champaign
9:15 am	Keynote: Research Challenges in SDN Anita Nikolich , Program Director for Cybersecurity, Division of Advanced Cyberinfrastructure, National Science Foundation
10:15 am	SDNs, Clouds and Security Roy Campbell , Associate Dean for Information Technology, College of Engineering and Sohaib and Sara Abbasi Professor of Computer Science, University of Illinois at Urbana-Champaign
10:45 am	Coffee Break
11:15 am	Towards Network Aware VM Migration – Evaluating the Cost of VM Migration in SDN-based Cloud Computing Network Sachin Shetty , Associate Professor, Electrical and Computer Engineering, Tennessee State University
11:45 am	Dynamic Graph Query Primitives for SDN-based Cloud Network Management Ramya Raghavendra , Research Scientist and Master Inventor, IBM TJ Watson Research Center
12:15 pm	Lunch McCormick Tribune Campus Center Prizker Club
1:30 pm	Panel: How to Make Security for SDN a Science? David Nicol , Franklin W. Woeltge Professor, Electrical and Computer Engineering, and Director, Information Trust Institute, University of Illinois at Urbana-Champaign Anita Nikolich , Program Director for Cybersecurity, Division of Advanced Cyberinfrastructure, National Science Foundation Frank Acker , Computer Security Researcher, Trusted Systems Research Group, Department of Defense Vinod Yegneswaran , Senior Computer Scientist, Computer Science Laboratory, SRI International
2:30 pm	SDNShield: Reconciling Configurable Application Permissions for SDN App Markets Yan Chen , Professor, Electrical Engineering, and Computer Science, Northwestern University
3:00 pm	Dynamic Control of Real-time Communication (RTC) using SDN: A Case Study of a 5G End-to-end Service Vijay Gurbani , Distinguished Member of Technical Staff, Bell Laboratories
3:30 pm	Coffee Break



4:00 pm	Poster Session and Reception McCormick Tribune Campus Center Main Hallway
6:00 pm	Workshop Banquet McCormick Tribune Campus Center Prizker Club
Friday, June 17, 2016	
8:00 am	Breakfast McCormick Tribune Campus Center Ballroom
9:00 am	Keynote: Developing and Maintaining Trust among SDN Entities Frank Acker , Computer Security Researcher, Trusted Systems Research Group, Department of Defense
9:30 am	Toward a Robust and Secure SDN Control Layer Vinod Yegneswaran , Senior Computer Scientist, Computer Science Laboratory, SRI International
10:00 am	Coffee Break
10:30 am	BigData Express - Toward Schedulable, Predictable, and High-performance Data Transfer Wenji Wu , Principal Network Research Investigator, Core Computing Division, Fermilab
11:00 am	RAINCOAT: Randomization of Network Connectivity in Industrial COntrol Systems to Mitigate Cyber-Attacks Hui Lin , Research Assistant, Electrical and Computer Engineering, University of Illinois at Urbana-Champaign Zbigniew Kalbarczyk , Research Professor, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign Ravishankar K. Iyer , George and Ann Fisher Distinguished Professor of Engineering, Electrical and Computer Engineering, University of Illinois at Urbana-Champaign
11:30 pm	Database-defined Network Anduo Wang , Assistant Professor, Computer and Information Science, Temple University
12:00 pm	Boxed Lunch McCormick Tribune Center Ballroom
1:00 pm	Final wrap-up and Summary Kevin Jin and Sibin Mohan
1:30 pm	Optional Tour of IIT Robert W. Galvin Center for Electricity Innovation Meet at top of Ballroom Stairs



Workshop sponsored by the NSA Science of Security Lablet at the University of Illinois at Urbana-Champaign. Information about the SoS Lablet can be found at: <http://publish.illinois.edu/science-of-security-lablet/>