

Sudharssan Mohan

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OBJECTIVE

I am very excited to attend the *ACM CCS 2022*, as this is my **first time** submitting my research to any conference. I am honored to know my **poster has been accepted** to the conference and I get to present it as **one of the lead authors** to many like-minded and bright minds in my field. This would be a great opportunity for me to network with other researchers and enhance research career. I have not attended a conference of such scale and reputation before, and I expect to make good use of my time there. I am looking forward to attending the various events and **learning about the latest cybersecurity research** the community has to offer. I know conferences are a big part of my experience as a Ph.D. student, so attending ACM CCS as my first conference ever will be such a privilege for me.

RESEARCH INTERESTS

Cyber-physical Systems, in particular, Drone security and robotic vehicles security.

EDUCATION

The University of Texas at Dallas

Computer Science, Advisor: Dr. Chung Hwan Kim

Dallas, TX, US

Ph.D. Student, January 2022 – Present

The University of Texas at Dallas

Computer Science

Dallas, TX, US

M.S., August 2021 – Present

Rajalakshmi Engineering College

Computer Science and Engineering

Chennai, Tamil Nadu, India

B.E., Aug 2017 – April 2021

PROJECTS

Automated Discovery of Sensor Spoofing Attacks on Robotic Vehicles, systematically discover potential sensor spoofing attacks on robotic vehicles using feedback-based fuzzing on various sensors and their measurements.

Study of rowhammer attacks on drones, investigate the possibility of exploiting rowhammer vulnerabilities to launch attacks against robotic vehicles, particularly drones.

EXPERIENCE

The University of Texas at Dallas

Researcher at the Software and Systems Security Lab (S3 Lab)

Teaching Assistant - Operating System Concepts CS 4348

Research Assistant

Teaching Assistant - Computer Networks CS4390

Dallas, TX, US

Jan 2022 - Present

Aug 2022 – Present

May 2022 – Aug 2022

Jan 2022 – May 2022

PUBLICATION

2022 Kyeongseok Yang*, **Sudharssan Mohan***, Yonghwi Kwon, Heejo Lee and Chung Hwan Kim. "Poster: Automated Discovery of Sensor Spoofing Attacks on Robotic Vehicles" (to appear), in *the 29th ACM Conference on Computer and Communications Security (CCS 2022)*, (Los Angeles, CA, 2022). *Equal contribution.

SKILLS

Programming Languages: C, C++, Python, Java, x86 Assembly.

Tools: GDB, Nmap, WireShark, Burpsuite.