

computer science CYBER DEFENSE LAB

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Activities of the Lab

The mission of the Cyber Defense Lab is to preserve the privacy of individuals, and to protect digital devices, computers, and networks against attack. Among the current projects are:

- Tools for ensuring software is developed and maintained in a way that is correct and free from common software vulnerabilities, with particular application to software in medical devices.
- Detection and identification of the sources of attacks launched through the Internet.
- Analysis of network traffic to detect malicious code that is not currently recognized by virus checkers.
- Security of devices and protocols in a new class of networks called sensor networks, with many exciting applications.
- Sophisticated analysis of alerts generated by intrusion detection to reduce false positives, while improving detection capabilities.
- Trust establishment, and protocols for trust negotiation.
- XML databases and access control.

There are approximately 25 MS and PhD students working in CDL. Their work is funded by the Army Research Office, the National Science Foundation, CACC, and ARDA/DTO.