As the internet and the devices that access it become truly ubiquitous, infocomm security is becoming increasingly critical. Organisations and individuals need to keep up with cyber attackers' strategies and skills to ensure a safe operating environment.

The Infocomm Security team's strategic thrusts are cyber-physical security, mobile security and cloud security – areas which increasingly demand investigation and discovery as more cyber threats appear online each week.

The team’s 30 research scientists and engineers work on projects that are relevant to various industry verticals; for example, energy, transport, telecommunications, finance and healthcare. The Infocomm Security team has four labs conducting deep research in core areas such as applied cryptography, network security, system security and embedded security.

**OPPORTUNITIES**

- Meeting the need for infocomm security wherever IT is used
- Leveraging our expertise in cloud, smart grid and mobile security
- Ensuring security by keeping up with the latest strategies and skills of cyber attackers

**CAPABILITIES**

- Applied cryptography
- Cyber-physical security
- Network security
- Mobile security
- System security
- Cloud security
- Embedded security
Our Value Proposition

The I²R Infocomm Security team aims to be a leading global player in building secure systems to detect and prevent cyber attacks. Our work has been validated by the adoption of a number of standards we have developed. Our solutions have also been adopted by government agencies and local and global companies. In addition, we have a couple of spinoffs based on our technologies.

Although our research spans a wide area, the team’s focus is on infocomm security for cyber-physical systems, mobile devices and cloud services. Mission-critical assets stored on the cloud, for example, can be made more secure through the best cryptography, while smart grids have to ensure that the data they send through is protected. Our research is also used in solutions aimed at mobile devices, which cyber criminals will increasingly target in the years ahead, and which are mostly still very open to cyber threats. For more information, visit http://icsd.i2r.a-star.edu.sg.

Achievements

- Acknowledged by Apple Inc. for helping to strengthen the security of its iOS 7 mobile operating system (2013)
- Singapore Youth Award 2012 – Dr. Yeo Sze Ling
- Co-founder of ACNS (International Conference on Applied Cryptography and Network Security) – Dr. Zhou Jianying

Industry Development Group

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