Networked Systems and Security Research Group

A leading capability in the development of Internet of Things (IoT) technologies over the past decade with long-lasting collaborations with a number of industry partners.

Competitive advantage

- Holistic approach that encompasses apps, protocols, security, analytics and device management
- Expertise in building and deploying practical IoT systems, including:
- Design, implementation and evaluation of energy-efficient wireless communication protocols
- Blockchain technology for IoT
- Security protocols for end-to-end communication and over-the-air programming
- Biometrics and authentication
- Privacy-enhancing technologies
- Wearable IoT technologies for human activity recognition
- Device-free sensing with WiFi
- Batteryless sensing, and
- IoT for sport analytics

Impact

- Better integration of the physical world with computer-based systems

Capabilities and facilities

- Comprehensive laboratory facilities with state-of-the-art IoT devices

Our partners

- Defence Science and Technology (DST)
- NEC
- Google
- Tata Consulting Services
- Institute of Infocomm Research, Singapore
- WBS technology (smart buildings with LPWAN)
- Virtual Vehicle Research Centre, EU
- Data 61, CSIRO

More Information

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