

Expertise in machine learning, data mining and deep learning. Leading in the field of multisource data analytics, especially on the topics of information filtering and recommending, false online information detection, human activity recognition and prediction and human-machine interactions.

Competitive advantage

- Developing novel data mining and machine learning algorithms to conduct effective data analytics by discovering useful and actionable patterns from heterogenous multi-source data
- Experience in designing and building systems and tools to enable and improve various data analytics applications in health care, cyber security and smart cities

More Information

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Impact

- Advanced algorithms for improved automation and better support for human-autonomy partnership
- World-class data analysis for improved collaborative reasoning and decision-making process

Successful applications

- Trust-aware distributed AI autonomy
- Context-aware intent prediction for human-autonomy cooperation
- Improving resilience of autonomous cyber defence systems with self-healing
- Opinion fraud detection
- Thing-of-interest recommendation in the Internet of Things

Capabilities and facilities

• GPU-accelerated Data Analytical Platform

Our partners

- Raiz Invest Limited
- Office of Naval Research, US Department of Naval
- Defence Science and Technology Group
- · Data to Decisions CRC