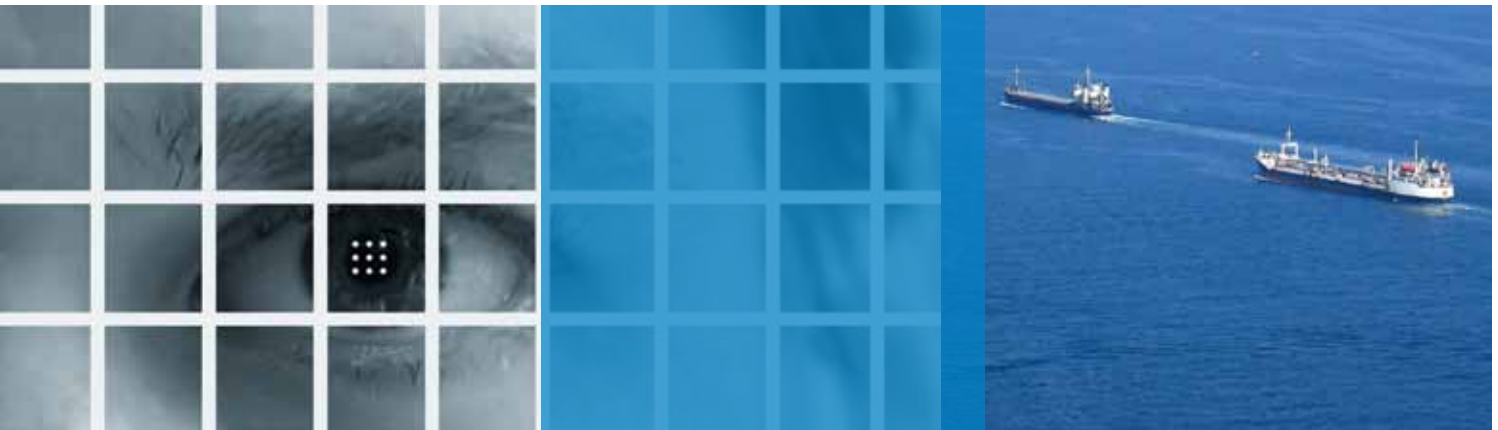


strategies network security
real-world forensic enhanced recognition
specific advanced improve monitoring
tracking



Advanced Surveillance

The security of Australia's ports, borders, large businesses and strategic assets is significantly enhanced by advanced surveillance systems. NICTA's Advanced Surveillance Project is developing security software that actively monitors closed circuit television (CCTV) footage and uses biometric cues to alert authorities to suspicious activities, objects and events. This technology will provide users with an early warning of potential trouble and help with forensic investigations.



The Features

- Face recognition ability from low resolution – low quality CCTV footage
- Near-instant face return from a database of up to 2 million faces
- Multi-camera tracking of an individual across a camera network
- Automatic tracking of people as they walk in and out of premises
- Light software footprint allowing deployment on portable platforms such as the iPhone.

Who is helped?

Surveillance technology outcomes will be used by law enforcement agencies such as police, counter-terrorism units, customs and border security, immigration and surveillance companies. Advanced surveillance has direct application for building, corporate security and casino security environments. These technologies also have significant public interest for the new range of wireless communication technologies including iPhone applications.

The NICTA Approach

We are developing advanced computer vision and pattern recognition algorithms for specific real-world data such as CCTV footage from cameras installed at railway stations, airports or sea ports. The unique combination of state-of-the-art identity inference and face recognition ability from extremely low-resolution CCTV footage is a powerful answer to real-world problems. Some of these technologies are being trialled at the Port of Brisbane and used by Law Enforcement Agencies in Australia and internationally.

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