Press Release , 17ᵗʰ October 2018 (For Immediate Release)

Cyrus Innovations represents Herta Security at Facial Recognition Forum

Singapore, 17ᵗʰ October 2018 , The use of biometrics technologies had been widely depicted in classic Science Fiction movies such as Blade Runner, Robocop or Terminator. Outsmarting these technologies by protagonists had also been cleverly portrayed.

In Back to the Future 2 (1989) where fingerprints were used to unlock doors and validate digital payments, the 'fingerprint bandits' amputated digits of key executives to access highly-secured devices. In Gattaca (1997), Vincent Freeman passed the biometrics testing to qualify for a space-flight program, by meticulously scrubbing and removing his own genetic material, and replacing with another in a genetic registry database. In Minority Report (2002), John Anderton evaded the citywide optical recognition system with a black-market eye transplant.

The "Facial Recognition" forum by Trueventus (17th – 18th October 2018, Hotel Fort Canning, Singapore) reviewed the expansion of biometrics usage - specifically facial recognition - across the globe, and the indisputable paradigm shift from physical keys and IDs to face as the key to identity.

Thomas Yip (General Manager, Herta Official Distributor – Cyrus Innovations Pte Ltd, Singapore) highlighted another Herta project – the deployment of its facial recognition technology in Uruguay football. Photo Credit: TrueEvents.

Cyrus Innovations Pte Ltd is proud to represent Herta Security at the Facial Recognition forum.

Evolution of Facial Recognition technology

Facial recognition has come a long way since the pioneering work by the French police officer Alphonse Bertillon.

In 1894, he developed the sophisticated process and method of recording and retrieving identifying characteristics including body measurements and photographs to track suspects, inmates and repeat offenders. He invented the modern mug shot. In standardizing the views (full face and profile views) and the lighting, he laid the foundation of the key principles of facial recognition.

Technological advances mean that these early techniques to identifying individuals have evolved into a sophisticated framework of capture, detection, identification and matching:

• High performance cameras to capture moving images at a split sub-second of high-resolution quality.

• Powerful GPU and CPU resources to process high volume screening of persons in the crowded spaces.

• Algorithms to correct for optical tradeoffs such as magnification, field of view, depth of field.

• Algorithms to identify key features and correct for natural changes (aging) and cosmetic surgery.

• Emerging Deep Neural network algorithms to improve accuracy of matching and reducing false positives

Case Studies

Two examples highlighted the use of the technology to repair reputation by improving public perceptions of safety and effectiveness of security.

Phuket Smart City mobile face recognition project, highlighted by Dr. Chaiyoot Chamnanlertkit (Founder / PIAC, Chairman. Know-Edgeorg, ISE Corp S.E. Ltd, Thailand). Photo Credit: Herta

The Phuket Smart City mobile face recognition project, highlighted by Dr. Chaiyoot Chamnanlertkit (Founder / PIAC, Chairman. Know-Edgeorg, ISE Corp S.E. Ltd, Thailand) is one.

Reeling from the deadly Bangkok bombing incident in 2015, where there were thousands of CCTVs in the area failed to prevent the incident, Prime Minister Prayut Chan-o-cha ordered an overhaul of 300,00 security cameras across the country. The Phuket project, where an alarm is raised once a backlisted subject is detected by the Herta technology, highlighted Analytical Capabilities such as facial recognition with connected CCTVs contribute to "making life efficient and safe".

Facial Recognition in Uruguayan Football . Photo Credit: PRNewsfoto/Herta

Thomas Yip (General Manager, Herta Official Distributor – Cyrus Innovations Pte Ltd, Singapore) highlighted another Herta project – the deployment of its facial recognition technology in Uruguay football, to identify unauthorized persons entering the stadiums. By restricting access, the tools contributed to reducing episodes of violence and hooliganism, to provide a positive and safe environment for fans who support their teams.

About Cyrus Innovations Pte Ltd

Cyrus Innovations is a value-added distributor with a difference where its mission is to help system integrators successfully test, evaluate, design and implement new high tech solutions in the video surveillance space.

Cyrus unique product offerings spread across different technologies but with a common framework of using the IP network as an infrastructure and platform to deliver analytics and actionable insights. Cyrus Innovations' key strength lies in its ability to identify and bring to market innovative products and technologies from companies around the world that have a good track record in product quality and reliability.

Cyrus also serves as a technical competence center for the cutting edge products that it carries. It's role as a distributor took a change in 2015 to include R&D where its Cyrus developed its own patent pending video surveillance technology based on big data analytics and machine learning.

Cyrus has successful implementations in smart cities , military, retail , critical infrastructure , airports , government , commercial buildings, integrated resorts.

About Herta Security

Herta is a world leader in the development of cutting edge facial recognition solutions. Based in Barcelona and with offices in Madrid, London, Los Angeles, Montevideo and Singapore, the company offers fast, accurate, robust, end-customer oriented solutions for video surveillance, access control, and marketing requirements. Its international projects include safe-cities, airports, train and metro stations, prisons, banks, casinos, sports stadiums, shopping malls, military, police and forensic applications. Herta has partners in 50 countries and more than 150 certified integrators globally