



# Secure and Private Embedded Real Time Analytics

**Robust machine learning algorithms in embedded devices to obtain novel insights and enable real-time decision making while ensuring system security and the privacy of users.**

## Competitive advantage

- Fundamental and multidisciplinary expertise in real-time embedded analytics for Internet of Things (IoT) and networked systems that can provide:
- Novel business, environmental and system insights through seamless non-invasive monitoring
- Security of networked systems
- Minimal privacy risk for users, and
- Improvements in the overall performance and usability of networked systems
- This technology has demonstrated widespread application in:
  - Detection of malicious mobile apps
  - Real-time continuous identification of individuals and machines
  - Energy efficient sensing of user activities
  - Detection of anomalous operation of networks and devices
  - Voice biometric systems and countermeasures to spoofing attacks

## Impact

- Better security and improved usability of networked systems

## Successful applications

- Automatic inference of user emotion and mental state
- Creation of a 'breathprint' for continuous user identification and authentication

## Capabilities and facilities

- State of the art laboratories equipped with a multitude of sensors, wearables, and state-of-the-art equipment for signal capture and analysis

## More Information

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