



## Visual Analytics

**Learning object models, feature extraction and recognition from high resolution remotely sensed images, tracking and virtual reality, biomedical informatics, medical image analysis and robotic vision.**

### Competitive advantage

- Methods range from classical computer vision and machine learning to deep learning.
- Use-inspired research and development, resulting in strong industry partnerships

### Impact

- Better analysis of images for a range of applications

### Successful applications

- Framework for image analysis of ocular images, Brien Holden Vision Institute
- Diffuse lung disease feature recognition and quantification, i-Med Networks
- Automatic map updating module for ARC/INFO in Geographic Information Databases, Australian Surveying and Land Information Group
- Recognition of allergy dust mites in environment from visual images
- Data analytics for genocide forecasting
- Visual analytics for preserving privacy in a camera-rich world

### Capabilities and facilities

- GPU servers for deep learning experiments

### More Information

Professor Arcot Sowmya

School of Computer Science and Engineering

T: +61 (0) 2 9385 6933

E: [a.sowmya@unsw.edu.au](mailto:a.sowmya@unsw.edu.au)

UNSW Knowledge Exchange

[knowledge.exchange@unsw.edu.au](mailto:knowledge.exchange@unsw.edu.au)

[www.capabilities.unsw.edu.au](http://www.capabilities.unsw.edu.au)

+61 (2) 9385 5008