

## **ARC Centres of Excellence Program**

### **ARC Centre for Perceptive and Intelligent Machines in Complex Environments**

**Interim Director:**     **Professor R A Jarvis**

**Collaborating Institutions:**     Monash University  
Curtin University of Technology  
The University of Melbourne  
The Australian National University  
Osaka University  
University of Texas at Arlington  
Nanyang Technological University, Singapore  
Kungliga Tekniska Hoegskolan (KTH)  
University of Alberta, Canada  
University of Karlsruhe  
University of South Florida  
University of Massachusetts

Humans, animals, insects and microbes interact purposefully with their environment through information gathered by (biological) sensors. It is a research challenge to equip machines with artificial sensors, computational systems and agility inspired by the biological world. Perceptive and intelligent machines designed to interact with complex environments will find applications in critically important areas such as security and defence, health care, and civil disaster support.

The Centre will undertake fundamental research on complexity, scalability and human/machine synergy, aimed at enabling the demonstration of real systems in real applications.