We are investigating the development of Humanoid Technologies. In our studies we bring together Robotics and Neuroscience in creating solutions that are more applicable to humans, these technologies can be applied to: Medical applications (Assistive/therapeutic aids), In Education (Teaching aids), For Security (Monitoring people) are just a few areas of benefit.

**Humanoid vision**

In our efforts to gain a better understanding of human vision, we are exploring computational models of human perception and the development of human-like vision systems on humanoid robots. This research can benefit:
- monitoring people (Security/Medical care)

**Learning from demonstration**

By studying the ways in which humans learn from demonstration, we are exploring similar principles to teach humanoid robots to perform complex behaviors. This research can benefit:
- better user interface
- for teaching
- training tools

**Biological-based Bipedal Locomotion**

We examine the biological principles of human locomotion, to come up with better control algorithms for humanoid robots to walk more naturally like human beings. This research can benefit:
- entertainment robots
- locomotive aids
- safety devices

**Members**


**Department of Humanoid Robotics and Computational Neuroscience**

ATR Computational Neuroscience Laboratories

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