



### **The Australian e-Health Research Centre**

Established in 2003, The Australian e-Health Research Centre (AEHRC) is an unincorporated joint venture between the CSIRO and State of Queensland (acting through Queensland Health and Department of Tourism, Regional Development and Industry).

A leading national research facility in ICT for healthcare innovations, AEHRC conducts high quality, applied research that aims to improve the quality and safety of health care for individuals and communities through a research program focused on applied outcomes and active adoption by the health system.

With its head office located in Brisbane and nodes in Sydney, Melbourne and Adelaide, the Centre brings together research, technology and people. The Centre consists of a multi-disciplinary team of researchers, software engineers and PhD students. AEHRC's vision is to develop and deploy leading-edge ICT innovations in the health care domain to improve service delivery in health care systems, generate commercialisation revenue and increase e-health expertise in Australia. The Centre assists health organisations and clinicians in delivering their services through the development of software tools. Visit [www.aehrc.com](http://www.aehrc.com) for more information.

### **Biomedical Imaging**

The aim of this area of research is to develop new methods and software for characterising diseases from medical images, and for the training and planning of computer assisted interventions. On-going projects cover a wide range of imaging modalities (Magnetic Resonance Imaging, Positron Emission Tomography, Computerised Tomography, ultrasound, optical imaging) and aim at fusing anatomical, functional and molecular information. Our approach is to embed into image processing algorithms expert knowledge from physiology, biology, pathology, and the physics of the imaging acquisition. We are developing novel shape, signal, and anatomical models at different levels: body, organ, and tissue. Main applications include surgical simulation, neuroimaging, radiotherapy planning and small animal imaging. Visit [www.aehrc.com/biomedical\\_imaging](http://www.aehrc.com/biomedical_imaging) for more information.

**Contact:** Olivier Salvado, PhD  
Team Leader, Biomedical Imaging  
The Australian e-Health Research Centre  
**phone:** +61 7 3253 3658 **email:** [olivier.salvado@csiro.au](mailto:olivier.salvado@csiro.au)

