

## **Keynote Presentation**

### **National eHealth Living Lab: Removing the “E” from E-Health**

Leif Hanlen

NICTA, National ICT Australia and The Australian National University, Locked Bag 8001,  
2601 Canberra, ACT, Australia  
leif.hanlen@nicta.com.au

#### **1 Bio**

Dr. Leif Hanlen is the lead for NICTA’s e-health business team. His role focuses on the application of internet scale machine learning, natural language processing and streaming data analysis to sports performance monitoring, clinical records, and “smart” homes. Dr. Hanlen holds 3 patents in the field of wireless design for body-area-networks, and over 70 peer reviewed publications. He is a member of Australian Standards for Telehealth, the Australian Information Industry Association eGovernment and eHealth taskforces.

#### **2 Abstract**

The reality of the burden of disease is that we must be more effective in our care delivery and meet higher and wider expectations. Digital technology is allowing greater access to care, better clinical outcomes and broader workforce engagement all at less total cost. The true benefits of digital technology can only be realized when “digital” becomes invisible. NICTA is transforming innovative technologies to advance the understanding of human diseases and to improve the health and wellbeing of Australians. Our eHealth team is developing open-access information systems and analysis engines to support national scale digital health programs. We are developing middleware for health data and analysis that allows best use of health information. This talk demonstrates how the new digital health care paradigm is developing in Australia and how a new approach to building a National eHealth Living Lab is supporting new approaches to care delivery.