# **Edith Cowan University Research Online**

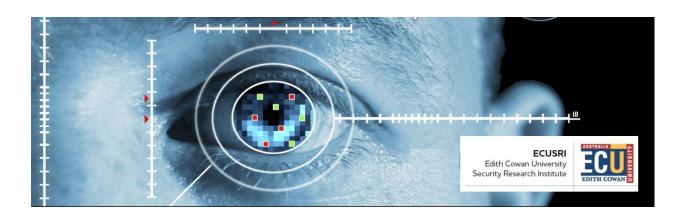
Australian eHealth Informatics and Security Conference

Conferences, Symposia and Campus Events

2014

## 3rd Australian eHealth Informatics and Security Conference, 2014, Edith Cowan University: conference details

Security Research Institute, Edith Cowan University



## The Proceedings of

# 3<sup>rd</sup> Australian e-Health Informatics and Security Conference

1-3 December, 2014

**ECU Joondalup Campus, Perth, Western Australia** 



# Proceedings of the 3<sup>rd</sup> Australian e-Health Informatics and Security Conference

#### **Published By**

Security Research Institute Edith Cowan University

#### **Edited By**

Associate Professor Patricia A.H. Williams School of Computer and Security Science Security Research Institute Edith Cowan University Trish.williams@ecu.edu.au

Copyright 2014, All Rights Reserved, Edith Cowan University

ISBN 978-0-7298-0721-0

CRICOS Institution Provider Code 00279B

#### **Sponsors**

## Edith Cowan University Security Research Institute





### **Supporters**







#### **Conference Foreword**

The annual Security Congress, run by the Security Research Institute at Edith Cowan University, included the 3<sup>rd</sup> Australian eHealth Informatics and Security Conference.

The unique focus on e-health sees the Australian eHealth Informatics and Security Conference in its second year and drawing on interest from many sectors including security experts, clinicians, industry and academia. E-health informatics is a broad and diverse discipline and this year sees submissions in technical ehealth security, policy and governance frameworks for security, as well as ehealth standards, and mobile applications. The latter being a rapidly expanding area of interest and development.

All submitted papers were subject to a double blind peer review process. Eight papers were submitted from Australia and overseas, of which seven were accepted for final presentation and subsequent publication, reflecting the high quality of the submissions.

We wish to thank all the reviewers for kindly volunteering their time and expertise and support of this event. I would also like to thank the conference committee who have organised yet another successful congress. Events such as this are impossible without the tireless efforts of such people in reviewing and editing of the conference papers, helping with the planning, organisation and execution of the conferences.

To our sponsors and supports, thankyou for both the financial and moral support provided to the conference.

#### Associate Professor, Patricia A. H. Williams

**Conference Chair** 

#### **Congress Organising Committee**

Congress Chair: Professor Craig Valli

Committee Members: Dr David Brooks

Mr Jeff Corkill
Mr Michael Coole
Mr David Cook
Mr Michael Crowley
Mr Peter Hannay
Dr Mike Johnstone
Mr Patryk Szewczyk
Mr Krishnun Sansurooah

Mr Clinton Carpene

Dr Zubair Baig

Associate Professor Andrew Woodward Associate Professor Trish Williams

Professor Bill Hutchinson Professor Nara Srinivasan

Congress Coordinator: Ms Emma Burke

## **Table of Contents**

CUSTOMISING DOCTOR-NURSE COMMUNICATIONS  Brian Cusack, Dave Parry	5
MANAGING WIRELESS SECURITY RISKS IN MEDICAL SERVICES Brian Cusack, Akar Kyaw	14
THE POTENTIALS AND CHALLENGES OF BIG DATA IN PUBLIC HEALTH	22
BYOD IN EHEALTH: HERDING CATS AND STABLE DOORS, OR A CATASTROPHE WAITING TO HAPPEN?	28
Krishnun Sansurooh, Patricia A H Williams	
SECURITY OF ELECTRONIC HEALTH RECORDS IN A RESOURCE LIMITED SETTING: THE CASE OF SMART-CARE ELECTRONIC HEALTH RECORD IN ZAMBIA	35
BIG DATA IN HEALTHCARE: WHAT IS IT USED FOR?Rebecca Hermon, Patricia A H Williams	40
AVOIDING EPIC FAILS: SOFTWARE AND STANDARDS DIRECTIONS TO INCREASE CLINICAL SAFETY	50
Patricia A H Williams, Vincent B McCauley	