



Faculty of Computing Health and Science

Research Group, Research Centre or Research Institute Report

RESEARCH UNIT NAME: eHealth research group

RESEARCH UNIT LEVEL (tick):

Level I Research Group:

Level II Research Centre:

Level III Research Institute:

Centre of Excellence:

REPORT TYPE: ANNUAL REPORT

YEAR: 2009

BRIEF OVERVIEW (1 – 2 paragraphs):

This group was formed in April 2009. As a new group the main focus has been to get things moving through finding funding opportunities and indeed be successful in attracting funds, attract research students and establish relationships with researchers elsewhere in the Faculty and University. Clearly the long lead times for the external grant funding process mean we may need more time to obtain success there, but we have and continue to make applications. However, in the period we have acquired two new PhD students and co-opted Dr Leesa Costello as a member.

MEMBERSHIP (Full Title of Researchers, including staff, research students, adjuncts):

Researchers:

Associate Professor Philip HINGSTON

Associate Professor Dongguang LI

Associate Professor Stanislaw MAJ

Associate Professor Donald McDERMID

Doctor Leesa COSTELLO

Doctor Martin MASEK

Doctor David VEAL

Doctor Trish WILLIAMS

Research students:

James AMI-NARH

Rachel MAHNCKE

Darren WEBB

NEW GRANTS (Identify Funding Body, Value of grant, Years Funded, Chief Investigator, collaborators, title):

ARC Linkage Grant LP0990807 (2010). Integrating social networking and online community to support and inform people affected by breast cancer. Chief Investigators Prof Lelia Green, Dr Leesa Costello and Vanessa Bradshaw (\$303,000)

Prostate Cancer Foundation of Australia (2009). The Back Shed – A virtual community for men’s health and wellness (Department of Health and Ageing). Chief Investigators: Robert U. Newton and Leesa Bonniface (Costello) (\$91,000)

ECU ECR 2010 Medical Information Security, Dr Trish Williams (\$25,000)

At the time of writing the following are in process:

Grant applications submitted:

2010

A GUI for the Blind ECU industry Colaboration Scheme Partner ogranisation Senses who are the leading organisation for the deafblind in WA. Veal, Maj and Speelman \$26,427

2009 ARC Linkage 'Real Time player tracking and strategy analysis in team sports using global optimisation algorithms'. Over \$2million including in-kind. Partners: Western Australian Institute of Sport, ECU Sports Science, Hockey Australia, University of the Sunshine Coast.

Grants to be submitted:

2010 ARC Linkage, 'Fonts for the Deafblind'. Veal, Maj and Speelman. Partners to date include Senses.

**PUBLICATIONS, REFEREED BOOKS, CHAPTERS, JOURNAL ARTICLES,
CONFERENCE PAPERS, REPORTS:**

McDermid, D. C., Kristjanson, L. and Spry, N. (2010). "Factors affecting the sustainability of Information Systems: Embedding new technology in hospitals", The International Journal of Healthcare Information Systems and Informatics, Vol. 5, No. 1, pp 1-15.

Green, L., & Costello, L. (2009). Fractures between an online and offline community (and the ethical responses). International Journal of Web Based Communities, 5(3), 462-475

J. Sinclair, P. Hingston, M. Masek, K. Nosaka, Using a Virtual Body to Aid in Exergaming System Development, IEEE Computer Graphics and Applications, March 2009.

McDermid, D. C., Mahncke R. and Williams, P.A. (2009), "Challenges in improving information security practice in Australian General Practice", Proceedings of 7th Australian Information Security Management Conference, Perth, Australia

Mahncke R., McDermid, D. C. and Williams, P.A. (2009), "Measuring Information Security Governance within general medical practice", Proceedings of 7th Australian Information Security Management Conference, Perth, Australia

Veal, D. Maj, S. P. and Makasiranondh, W. (2009). Dynamic patterns for low vision internetworking students. World Transactions on Engineering and Technology Education. WIETE, Vol 7, No.2. Melbourne, Vic, Australia.

Williams, P.A.H. (2009). Capturing Culture in Medical Information Security Research. Methodological Innovations, 4(3), 15-26.

Williams, P. A. H. (2009). What does security culture look like for small organizations? In C. Bolan (Ed.) Proceedings of the 7th Australian Information Security Management Conference, (pp.48-54), SECAU Security Research Centre, Edith Cowan University, Perth, WA.

HIGHER DEGREE BY RESEARCH LOAD (List name of candidate and degree type)

Rachel MAHNCKE PhD

James AMI-NARH DIT

Darren WEBB PhD

HIGHER DEGREE BY RESEARCH COMPLETIONS (List name, degree, title of thesis)

None during this period

VISITORS AND COLLABORATIONS (List the organisation's name and short summary of the nature of the collaboration. Separate into local, national and international)

As a new group we have received no visitors.

COMMUNITY ENGAGEMENT ACTIVITIES AND LINKAGES (Provide an overview)

In this period we have made numerous attempts to engage the WA Dept of Health and Ageing. However, due to government cutbacks, the resignation of director Dr Peter Flett which led to the resignation of the CIO Richard McFadden we have had little success locally.

However, Associate Prof McDermid and Dr Williams have been elected to the WA HISA (Health Informatics Society of Australia) branch committee. The branch is running a conference this year.

Dr Williams was invited to serve on NEHTA consultation panel for the Future of the health Informatics Workforce for Australia. She also undertook a review of the Biomedical Informatics curriculum for St Georges University Hospital, London.

FUTURE PLANS AND DIRECTION (Provide an overview)

Our main task is to continue to apply for grants including category 1 grants. As a new group with relatively little track record at category 1 this will take some time but clearly this is our goal.

Given the poor response from local government we are working on ways in which we can establish a national presence via HISA and other national ehealth bodies. Clearly this is difficult in terms of distance, other work commitments and cost.

DATE OF NEXT FORMAL REVIEW

December 2010