



Research outputs - 2009

Research articles

Blignaut, P. 2009. A bilateral perspective on the digital divide in South Africa.

Perspectives on Global Development and Technology 8: 581-601.

Blignaut, P. 2009. Fixation identification: The optimum threshold for a dispersion algorithm. *Perception & Psychophysics* 71(4): 881-895.

Blignaut, P. & Beelders, T. 2009. The effect of fixational eye movements on fixation identification with a dispersion-based fixation detection algorithm. *Jahrbuch der Absatz- und Verbrauchsforschung* 2(5): 1-14.

Blignaut, P. & McDonald, T. 2009. The effect of experience and socio-economic status on web searching performance: A South African perspective.

Behaviour & Information Technology 28(3): 1-12.

Molupi, M. & McDonald, T. 2009. An investigation into the access and usage of the internet in Lesotho. *Journal for New Generation Sciences* 7(2): 201-217.

Books

Beelders, T. 2009. *Graphics, text and language in a word processor interface: A comparative study on the usability of different interface elements.*

Saarbrücken: VDM Verlag Dr. Müller. 275pp.

Conferences (Publication)

Dednam, E. 2009. *Away with computer literacy modules at Universities, or not?*

Proceedings of SACLA 2009: The 2009 Annual Conference of the Southern African Lecturers' Association: Connecting students to the future, Rhodes University, Eastern Cape, South Africa. 29 June-1July. pp. 23-32.

McDonald, T. & Breytenbach, J. 2009. *Search engine coverage bias in a developing country*. Proceedings of the 11th Annual Conference on World Wide Web

Applications (ZA WWW2009), Port Elizabeth, South Africa. 2-4 September. pp. 4-12.

Mosebi, M. & McDonald, T. 2009. *Business intelligence in South African Government*

- *Subsidised bus companies*. Proceedings of the 28th Annual Southern African Transport Conference and Exhibition (SATC 2009): Sustainable transport, Pretoria, South Africa. 6-9-July. pp. 499-506.

Van Biljon, A. 2009. *Quartiles and percentiles: Which formula?* Proceedings of the 15th Annual Congress of the Association for Mathematics Education of South Africa (AMESA 2009): Mathematical knowledge for teaching, University of the Free State, Bloemfontein, South Africa. 29 June-3 July. pp. 210-216.

Conferences (Paper or Poster)

Beelders, T., Blignaut, P., McDonald, T. & Dednam, E. 2009. *Measuring user performance for different interfaces using a word processor prototype*. Paper presented at the 13th International Conference on Human Computer Interaction (HCI International 2009), San Diego, California, USA. 19-24 July.

Blignaut, P. & Beelders, T. 2009. *'n Multimodale koppelvlak vir 'n gewilde woordverwerkingspakket*. Studente Simposium van die Suid Afrikaanse Akademie vir Wetenskap en Kuns. Bloemfontein, Suid-

Afrika. 29-30 Oktober.

Burger, A., Blignaut, P. & De Wet, L. 2009. *Die lewensvatbaarheid van 'n kwantitatiewe model om die bruikbaarheid van webwerwe te meet*. Studente Simposium van die Suid Afrikaanse Akademie vir Wetenskap en Kuns.

Bloemfontein, Suid-Afrika. 29-30 Oktober.

Ndeya-Ndereya, C. & Nel, E. 2009. *Enhancing social presence to humanise the online learning environment*. Conference of the Higher Education Learning and Teaching Association of Southern Africa (HELTASA) Conference: Risk and resilience in Higher Education, University of Johannesburg, Johannesburg, South Africa. 25-27 November.

Ndeya-Ndereya, C. & Nel, E. 2009. *Online collaboration: Facilitating to fulfill cognitive & social objectives*. 2009 Blackboard Africa User Conference. Bloemfontein, South Africa. 16-17 April.

Nel, W. & McDonald, T. 2009. *Vergelyking van soekenjins en gebruikerinteraksie met betrekking tot dubbelsinnige Web-soekstringe*. Studente Simposium van die Suid Afrikaanse Akademie vir Wetenskap en Kuns. Bloemfontein, Suid- Afrika 29-30 Oktober.

Oosthuysen, C. & Blignaut, P. 2009. *'n Bruikbaarheid- en funksionaliteitstudie van intranette aan Suid-Afrikaanse universiteite*. Studente Simposium van die Suid Afrikaanse Akademie vir Wetenskap en Kuns. Bloemfontein, Suid-Afrika. 29-30 Oktober.

Smart, A., Van der Linde, L., Wilkinson, A. & Nel, E. 2009. *From barriers to implementation: A case study in implementing E-learning on a campus*. 2009 Blackboard Africa User Conference. Bloemfontein, South Africa. 16-17 April.

Van Jaarsveldt, D. & Nel, E. 2009. *Culture and technology: A challenge for higher education*. Poster. New Generation University Conference. Vanderbijlpark, South Africa. 17-19 Nov 2009.

Van Tonder, A., Blignaut, P. & Atagana, I. 2009. *An investigation into biochemistry students' graphical literacy*. Paper presented at the New Zealand Association for Research in Education (NZARE) Conference 2009: This is our research, this is why it matters and this is what should happen next - NZ educational research in 2009, Distinction Hotel, Rotorua, New Zealand. 30 November-4 December.

Reports

Beelders, T. 2009. *Usability report on the electronic leave application system developed by computer services*. Report to the Department Information and Communication Services, University of Free State, Bloemfontein, South Africa. Report number: 2009/001.

Blignaut, P. 2009. *Eye-tracking study on the viewing behaviour during broadcasting of high profile sports events*. Report to Sports Marketing Surveys, Sandton. Report number: 2009/002.

Blignaut, P. & Beelders, T. 2009. *Saliency of promotional material on television and the effect it has on the recall ability of viewers*. Report to Sports Marketing Surveys, Sandton. Report number: 2009/003.

Blignaut, P. & Beelders, T. 2009. *Usability report: Online student registration for students at the University of the Free State*. Report to the Department Information and Communication Services, University of Free State, Bloemfontein, South Africa. Report number: 2009/004.
