



Research Outputs 2017

RESEARCH ARTICLES

Blignaut, P.J. 2017. Development of a gaze-controlled support system for a person in an advanced stage of multi-sclerosis: a case study. *Universal Access in the Information Society* 16(4): 1003-1016.

Blignaut, P.J. 2017. Using smooth pursuit calibration for difficult-to-calibrate participants. *Journal of Eye Movement Research* 10(4): 1-14.

Kotze, J.E. 2017. Augmenting a Data Warehousing Curriculum with Emerging Big Data Technologies. *Communications in Computer and Information Science* SACL A 2017, CCIS730: 128-143.

Kotze, J.E. 2017. A survey of Data Scientists in South Africa. *Communications in Computer and Information Science* SACL A 2017, CCIS730: 175-191.

Nel, E. 2017. Students as collaborators in creating meaningful learning experiences in technologically-enhanced classrooms: An engaged scholarship approach. *British Journal of Educational Technology* 48(5) 1131-1142.

Senekal, B.A. & Kotze, J.E. 2017. Die statistiese eienskappe van geskrewe Afrikaans in 'n komplekse netwerk. *LitNet Akademies* 14(1): 27-59.

Swanepoel, E.H., Beyers, C. & **De Wet, L.** 2017. Exploring judgement and internal bias of life orientation teachers in sexuality teaching. *Journal for Transdisciplinary Research in South Africa* 13(1) 1-12.

Verkijika, S.F. & De Wet, L. 2017. Determining the accessibility of e-Government websites in Sub-Saharan Africa against WCAG 2.0 standard. *International Journal of Electronic Government Research* 13(1): 52-69.

CHAPTERS IN BOOKS

Miller-Naude, C.L., Naude, J.A., **Beelders, T.R.** & Bergh, L. 2017. Visual grammar: An eye-tracking perspective on cognitive complexity in Biblical Hebrew pronunciation. *Le-ma'an Ziony Essays in honor of Ziony Zevit*. F.E. Greenspahn & G.A. Gendsburg (eds). Oregon, United States of America, Wipf and Stock Publishers.

CONFERENCE CONTRIBUTIONS

Fouche, R.C. 2017. *Head Mouse: Generalisability of research focused on the disabled to able bodied users.* Paper delivered at the South African Institute of Computer Scientists and Information Technologists (SAICSIT) Conference, Thaba 'Nchu, South Africa.

Lombard, W.A., Van Zyl, J.H. & **Beelders, T.R.** 2017. *Consumer preference with regard to red meat: an Eye-tracker case study.* Paper delivered at the 21st International Farm Management Congress "Future Farming Systems", Edinburgh, Scotland.

Macharia, P., Muiriri, P., Kumar, P., **Ngari, B. & Wario, R.D.** 2017. *The feasibility of using an Android-based infant fingerprint biometrics system for treatment follow-up.* Paper delivered at IST-Africa 2017 Conference, Windhoek, Namibia.

Nel, W. & Burger, A.J. 2017. *Proving cybercriminals' possession of stolen credit card details on compromised POS devices.* Paper delivered at the 12th International Conference on Cyber Warfare and Security, Dayton, United States of America.

Ngari, B. & Wario, R.D. 2017. *An assessment of predictors of learner's attention and their influence to learner's engagement and learning outcomes in a mobile learning classroom.* Paper delivered at IST-Africa 2017 Conference, Windhoek, Namibia.

Potgieter, P.H. & Blignaut, P.J. 2017. *Using eye-tracking to assess the application of divisibility rules when dividing a multi-digit dividend by a single digit divisor.* Paper delivered at the South African Institute of Computer Scientists and Information Technologists (SAICSIT), Thaba 'Nchu, South Africa.

PAPERS AND POSTERS

Bergh, L. & **Beelders, T.R.** 2017. *Eye-tracking studies concerning print media in South Africa.* Paper delivered at the 5th Annual Book History Seminar, Pretoria, South Africa.

Blignaut, P.J. 2017. *Real-time visualisation of student attention in a computer laboratory.* Poster presented at the European Conference on Eye Movements 2017, Wuppertal, Germany.

Du Plooy, D.C., Kotze, J.E. & Du Plessis, J.L. 2017. *Applying named entity recognition on the Dictionary of Southern African Place Names.* Paper delivered at the Deep Learning Indaba, Johannesburg, South Africa.

Holmqvist, K., Zemblys, R., **Beelders, T.** & Niehorster, D. 2017. *Magnitude and variability in eye-tracking data.* Paper delivered at the European Conference on Eye Movement 2017, Wuppertal, Germany.

Huber, M. & **Wium, D.J.** 2017. *Where do we look? Eye-tracking in petrology.* Paper delivered at the 9th Annual Meeting of the Igneous and Metamorphic Studies Group, Johannesburg, South Africa.

Janse van Rensburg, E., Oberholzer, M. & **Blignaut, P.J.** 2017. *OT Eye: A tool to guide intervention and monitor progress during occupational therapy*. Poster presented at the European Conference on Eye Movements 2017, Wuppertal, Germany.

Loth, C.R., **Lilokoe, G. & Du Plessis, J.L.** 2017. *Using technology to raise awareness about place names as cultural heritage*. Paper delivered at International Symposium on Place Names, Windhoek, Namibia.

Mase, B. 2017. *Using educational videos to improve knowledge retention in computer programming*. Paper delivered at the National Conference on Distance Education and Open Learning, Bloemfontein, South Africa.

Musumba, G.W., Kanyi, P., Nyongesa, H.O. & **Wario, R.D.** 2017. *Techniques for evaluation and selection of partners for construction projects*. Paper delivered at the Pan African Conference on Science, Computing and Telecommunications 2017, Nairobi, Kenia.

Potgieter, P.H. & Blignaut, P.J. 2017. *A tool to assist teachers to determine if learners apply the divisibility rule correctly*. Poster presented at the European Conference on Eye Movements 2017, Wuppertal, Germany.

Van der Westhuizen, R. & Blignaut, P.J. 2017. *Using eye-tracking to provide dynamic assistance on the reading skills of beginner readers on desktop or mobile devices*. Poster presented at the European Conference on Eye Movements 2017, Wuppertal, Germany