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UFS·UV
NATURAL AND
AGRICULTURAL SCIENCES
NATUUR- EN
LANDBOUWETENSKAPPE

COMPUTER SCIENCE AND INFORMATICS
REKENAARWETENSKAP EN INFORMATIKA

RESEARCH OUTPUTS 2018

Research Articles

Agana, M. & Wario, R.D. 2018. A multi-level evidence based cybercrime prosecution information system. *International Journal of Engineering and Technology* 7(3.19): 39-48.

Agana, M. & Wario, R.D. 2018. A Fuzzy skill predictor for early childhood educators. *International Journal of Engineering and Technology* 7(3.19): 49-58.

Blignaut, P.J. 2018. The effect of real-time headbox adjustments on data quality. *Journal of Eye Movement Research* 11(1): 1-18.

Blignaut, P.J. 2018. Using smooth pursuit calibration for difficult-to-calibrate participants. *Journal of Eye Movement Research* 10(4): 1-14.

Brown, R.W. & Blignaut, P.J. 2018. The importance of applying established web site design principles on an online performance management system. *International Journal of Industrial and Systems Engineering* 12(6).

De Smedt, T., Jaki, S., **Kotzé, J.E.**, Saoud, L., Gwozdz, M., De Pauyw, G. & Daelemans, W. 2018. Multilingual cross-domain perspectives on online hate speech. *Computational Linguistics and Psycholinguistics technical report series* 8: 1-24.

Kotzé, J.E. & Senekal, B.A. 2018. Employing sentiment analysis for gauging perceptions of minorities in multicultural societies: An analysis of Twitter feeds on the Afrikaner community of Orania in South Africa. *The Journal for Transdisciplinary Research in Southern Africa* 14(1): 1-11.

Opperman, S., Van Rooyen, M. & Marais, K. 2018 An inter-semiotic approach to translation: Leonard Cohen in Afri-kaans. *Literator* 39(1), a1458.

Potgieter, P. & Blignaut, P.J. 2018. The effect of learners' knowledge of the divisibility rules on their gaze behaviour. *African Journal of Research in Mathematics, Science and Technology Education*

Senekal, B.A. & **Kotzé, J.E.** 2018. Die ontwikkeling van 'n koste-effektiewe en byderwetse multimedia digitale argief by EPOG in Orania. *Litnet Akademies* 15(3): 239-275.

Verkijika, S.F. & De Wet, L. 2018. A usability assessment of e-government websites in Sub-Saharan Africa. *International Journal of Information Management* 39: 20-29.

Verkijika, S.F. & De Wet, L. 2018. E-government adoption in sub-Saharan Africa. *Electronic Commerce Research and Applications* 30: 83-93.

Verkijika, S.F. & De Wet, L. 2018. Quality Assessment of E-Government Websites in Sub-Saharan Africa: A Public Values Perspective. *Electronic Journal of Information Systems in Developing Countries*

Verkijika, S.F. & De Wet, L. 2018. Accessibility of South African University Websites. *Universal Access in the Information Society (UAIS)*.

Verkijika, S.F. (2018). Factors influencing the adoption of mobile commerce applications in Cameroon. *Telematics & Informatics*, 35(6), 1665-1674.

Verkijika, S.F. (2018). Understanding smartphone security behaviors: An extension of the protection motivation theory with anticipated regret. *Computers & Security*, 77, 860-870

Book / Chapter in Book

Beelders, T.R. & Stott, A. 2018. Eye movements during barking at print. [Online First], IntechOpen, DOI: 10.5772/intechopen.81898. Available from: <https://www.intechopen.com/online-first/eye-movements-during-barking-at-print>

Ahishakiye, E.O. & **Wario, R.D.** 2018. Low cost business intelligence systems using open source tools. 1st Edition. Mauritius: Lambert Academic Publishing Pp 1-92.

Conference Proceedings

Agana, M., Wario, R.D. & Onyeke, I. 2018. *Shared wireless access point security in a hybrid star topology using primary host authentication: a case study of NAITES wi-fi*. Paper delivered at Information Systems Technology (IST)-Africa 2018, Gaborone, Botswana.

Beelders, T.R. & Du Plessis, J.L. 2018. *Reading usability of e-readers and e-books for Information Technology students*. Paper delivered at the South African Institute of Computer Scientists and Information Technologists (SAICSIT) 2018, Port Elizabeth, South Africa.

Holmqvist, K. Niehorster, D. & Blignaut, P.J. 2018. *Data quality in eye trackers: signal resolution*. Paper delivered at the Scandinavian Workshop on Applied eye tracking (SWAET), Frederiksberg, Denmark.

Janse van Rensburg, E., **Blignaut, P.J.** & Oberholzer, M. 2018. *Computerised assessment of eye tracking to enhance clinical observations in Occupational Therapy*. Paper delivered at the World Federation of Occupational Therapists Congress (WFOT), Cape Town, South Africa.

Kebande, V.R., Kigwana, I., Venter, H.S., Karie, N.M. & **Wario, R.D.** 2018. *CVSS Metric-based analysis, classification and assessment of Comp. Network threats and vulnerabilities*. Paper delivered at the International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa.

Mabanza, N. & **De Wet, L.** 2018. *Influence of previous computer experience on adult learners' satisfaction levels with pedagogical interface agents*. Paper delivered at the International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa.

Musumba, G.W. & **Wario, R.D.** 2018. *Towards group fuzzy analytical hierarchy process*. Paper delivered at Information and Communication Technology for Development for Africa, Bahir Dai, Ethiopia.

Nel, G. & Nel, E. 2018. *Motivational value of code.org's code studio tutorials in an undergraduate programming course*. Paper delivered at the 47th Annual Conference of the South African Computer Lecturers' Association, Gordon's Bay, South Africa.

Nyaga, C. & Wario, R.D. 2018. *Sign language gesture recognition through computer vision*. Paper delivered at Information Systems Technology (IST)-Africa 2018, Gaborone, Botswana.

Phoobane, M.P. & **Kotzé, J.E.** 2018. *The role of quality of information and intention to use in mobile business intelligence*. Paper delivered at the International Conference on Advances in Big Data, Computing and Data Communication Systems (icABCD), Durban, South Africa.

Potgieter, P. & Blignaut, P.J. 2018. *A system to determine if learners know the divisibility rules and apply them correctly*. Paper delivered at the Eye-tracking Research and Applications Symposium (ETRA), Warsaw, Poland.

Potgieter, P. & Blignaut, P.J. 2018. *Setting heuristics for eye tracking assessment on divisibility rules*. Paper delivered at the 2018 International conference on Intelligent & Innovative Computing Applications (ICONIC), Plaine Magnien, Mauritius.

Wario, R.D. & Ngari, B. 2018. *A framework for mobile learning technology usability testing*. Paper delivered at the International conference on Human-Computer Interaction (HCI), Las Vegas, Nevada.