CONFERENCE ABSTRACT

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March 3, 2019

Parallel Session 4

Topic: Modern educational technology and management Session Chair: Dr. Peter Francis Holowka, University of Calgary, Canada

Time: 15:45-17:00

[Bridgetower Room]

| | Title: The Determinants of Educational Technology Infractructure in |
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| | Western |
| | Author: Poter Francic Holowica |
| | Procenter: Poter Francis Holowika |
| | riesenter. reter riancis nolowka, oniversity of Calgary, Callada |
| T3022 15:45-16:00 | Abstract: As the use of educational technology expands globally, it is critical for academics and practitioners to better understand the IT infrastructure that enables its use. This presentation explores the question of what are the greatest influences on IT infrastructure and cloud computing adoption within K-12 education. Given the influences of district priorities, location, size, regional legislation, leadership structures, as well as purely technical considerations, this presentation examines which of these factors is the most influential on a district's IT infrastructure. The findings and implications of this presentation are based on an exhaustive study of all 75 large K-12 districts in Canada's three westernmost provinces: British Columbia, Alberta, and Saskatchewan. Multiple case study analysis, followed by correlation analysis, was used to explore the nature of IT infrastructure and cloud computing use in these provinces. A data transformation model mixed methods triangulation design methodology was used. This study encompassed over 1.1 million students and a geographical area of 2,258,483 square kilometres, resulting in one of the most comprehensive investigations of educational technology infrastructure and cloud computing computing in the world |
| | Title: MathE - Improve Mathematical Skills in Higher Education |
| | Authors: Maria F. Pacheco, Ana Pereira, Florbela Fernandes |
| | Presenter: Maria F. Pacheco, Instituto Politécnico de Bragança, Portugal |
| | Abstract: Higher education students of scientific subjects often lack the basic |
| | mathematical skills to follow lectures and make the most of the lecturer's |
| T3054 | teachings. It is necessary to identify the gaps in each students' |
| 16:00-16:15 | understanding of the concepts and offer teachers adequate resources to |
| | motivate and provide their students the skills and competences they miss. |
| | The main goal of MathE - Improve Maths Skills in Higher Education is to |
| - | encourage training and exchange in order to enhance and strengthen the |
| | quality of teaching and to support the use of digital and online technologies |
| | to improve pedagogies and assessment methods. MathE also aims to set up |
| | transnational teacher training courses and strengthen cooperation between |

| | universities that already offer such courses. | |
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| | Title: Flipping the Reading Strategies and Comprehension through an | |
| | Interactive Big Data Reading Platform | |
| | Authors: P.C.W. Ho, W.W.T. Fok, C.K.K. Chan, H.H. Au Yeung, H.W. Ng, S.L. | |
| | Wong, S.Y. Ngai, P.H. Kwok, Y.S. Ho, K.H. Chan | |
| | Presenter: HO CHEUK WING PRAJNA, THE UNIVERSITY OF HONG KONG | |
| | | |
| | Abstract: The purpose of this study is to investigate the learning approach of | |
| | the designed Flipped Reading Platform (FRP) and its effects on primary | |
| | school students' general Chinese reading and comprehension capabilities. | |
| | This study was undertaken as part of the Quality-Education-Fund projects | |
| - | in Hong Kong titled "Flipped Reading: Enhancing the Learning and Teaching | |
| | of Reading Strategies and Comprehension in Chinese via an Interactive | |
| | Cloud Platform". | |
| T3062 | This paper presented the design of the Interactive Cloud Platform Flipped | |
| 16:15-16:30 | Reading Platform incorporating both elements of reading strategies and | |
| 10110 10100 | learning activities, investigating the changes in students' reading | |
| | performance, applied strategies, and the level of active learning with the | |
| | application of FRP. Among the participants in the pilot scheme, the overall | |
| | results showed students generally gain more in three stages of reading | |
| | comprehension, favoring the experimental students using the FRP. | |
| | Meanwhile, low-achieving students learned the strategies better. Analysis of | |
| | FRP log activities shows students' active engagement in reading and | |
| | perceived competence. Different learning outcomes were also found | |
| | within the experimental group categorized by BYOD and non-BYOD classes. | |
| N | Implications of the study show the effectiveness of FRP, and the design | |
| | demonstrates now the reading measures have integrated the assessment | |
| | indicators of both international and local standards in the domain of | |
| | individual online reading performance and learning behavior on EDD | |
| | Title: The Moderating Effect of Education and Experience on the Use of | |
| | Learning Management Systems | |
| | Authors: Sami S. Rinyamin, Malcolm I. Rutter and Sally Smith | |
| | Presenter: Sami S. Binyamin, Filinburgh Napier University IIK | |
| | resenter. Sam 5. Diryanni, Edinburgh Napier Oniversity, OK | |
| 1 T | Abstract: Based on the technology accentance model, this research | |
| T3063 | investigated the variables that affect students' use of LMS in Saudi public | |
| 16:30-16:45 | universities. The study also examined the moderating impact of education | |
| | and experience on the students' behavior toward LMS. 851 online surveys | |
| | were submitted by students at three Saudi universities, and 833 responses | |
| | were used for data analysis. The collected data were analyzed using Partial | |
| | Least Squares Structural Equation Modelling along with multigroup | |
| | analysis. Amongst 40 paths, the results revealed that education and | |

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| through an | | experience moderated only four relationships in the proposed mod Discussions, insights and implications for decision makers in Saudi high |
| - | | education are provided at the end of this paper. |
| 1.W. Ng, S.L. | | Title: New Technologies in Education for Security and Safety |
| · · · · · · | | Authors: Małgorzata Gawlik-Kobylińska, Paweł Maciejewski |
| G KONG | | Presenter: Małgorzata Gawlik-Kobylińska, Paweł Maciejewski, War Stud University Poland |
| approach of | | oniversity, i oland |
| on primary | | Abstract: The namer is a qualitative study on the use of new technologies |
| capabilities. | | didactic tools in education for security and safety. The aim of the research |
| ind projects | | was to explore their potential in two aspects low competencies acquir |
| nd Teaching | T2090 | and developed during technology enhanced training as well as the m |
| Interactive | 16:45-17:00 | desirable tools used in education for security and safety. The responde |
| Irm Elina d | | were 32 international experts who teach security and safety topics in c |
| atorian and | | and military institutions. The research results indicated that reactions |
| alegies and | | emerging threats, crisis response situations, decision making a |
| or with the | | managerial skills were the key competencies. The most desirable tools w |
| the event | | characterized by two features: instant access for learners and teachers, a |
| of roading | | the possibility of painless learning on mistakes. The study also reflected |
| the EDD | | teachers' awareness on the use of digital tools in education for security a |
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