12th International Educational Technology Conference

(IETC 2012)

Procedia Social and Behavioral Sciences Volume 64

Taoyuan, Taiwan
11 – 13 July 2012

Editors:

A. Isman

ISBN: 978-1-62993-105-0
# TABLE OF CONTENTS

A Web Application Supported Learning Environment for Enhancing Classroom Teaching and Learning Experiences ................................................................. 1
   Yen-Ting Lin, Min Jou

Effectiveness of Isman Instructional Design Model in Developing Physics Module based on Learning Style and Appropriate Technology .................................................................................................................. 12
   Norlida Alias, Saedah Siraj

Digital Studio vs. Conventional in Teaching Architectural Design Process ........................................................................................................ 18
   Mohd Arif Ismail, Rosnaini Mahmud, Isham Shah Hassan

Problem-solving in a Multimedia Learning Environment: The MILE@HOME Project ........................................................................................................ 26
   Mai Neo, Ken T. K. Neo, Heidi Yeen-Ju Tan, Joyce, Wai-Jing Kwok, Chen-Haw Lai

The Development and Evaluation of a Computerized Adaptive Testing System for Chinese Proficiency - base on CEFR .................................................................................................................. 34
   Hsuan-Po Wang, Bor-Chen Kuo, Rih-Chang Chao, Ya-Hsun Tsai

Preliminary Development of Health Education in Curbing Obesity Among Preschool Children .................................................................................. 43
   M. Maziah, R. Saemah, H. Hamidah

Modeling SNA Result to Improve Learning Community ............................................................................................................................... 52
   Nina Bijedic, Indira Hamadic, Emina Junaz, Ismet Maksumic, Dragica Radosav

The Evaluation of Students and Teachers Views on Physical Arrangement of Classroom ........................................................................................... 58
   Ibrahim Habaci, Ibrahim Kaya, Sultan Kurt, Ismail Kurt, Fadime Adiguzelli, Yasar Adiguzelli

A Multi-factor Fuzzy Inference and Concept Map Approach for Developing Diagnostic and Adaptive Remedial Learning Systems ........................................................................................................ 65
   Yi-Ting Kao, Yu-Shih Liu, Chih-Ping Chu

Assisting Primary School Children to Progress through their Van Hiele’s Levels of Geometry Thinking using Google SketchUp .................................................................................................................. 75
   Mohd Salleh Abu, Mohamad Bilal Ali, Tan Tong Hock

Examination of Technology in Turkish Social Studies Curricula ............................................................................................................................... 85
   Cemil Öztürk, E. Özlem Yigit, Hidir Karaduman

Applying the Technology Acceptance Model to Online Learning in the Egyptian Universities .................................................................................. 95
   Taher Farahat

The Effects of using English Captions on Iranian EFL Students’ Listening Comprehension ........................................................................................................ 105
   Farimah Ghasemboland, Zohreh Nafissi

Development of Web-Based Basic French Courseware (EASIFRENCH) by using Content Management System ............................................................................................................................................ 113
   Kamaruzzaman Ismail, Norazah Mohd Nordin

The Turkish Adaptation of Mathematics Belief Scale: The Validity and Reliability Study ........................................................................................... 123
   Ercan Masal, Mithat Takunyaci

Student Perceptions of an Educational Technology Tool: Video Recordings of Project Presentations .................................................................................. 133
   Tugba Orten Tugrul

The Effects of an Automatic Speech Analysis System on Enhancing EFL Learners’ Oral Reading Fluency ............................................................................................................................................ 141
   Syou-Rung Tsau

Enhancing Reading Comprehension through Cognitive and Graphic Strategies: A Constructivism Approach ............................................................................................................................................ 151
   Yusfarina Mohd Yussof, Abdul Rashid Jamian, Samshilaah Rosli, Zaitul Azma Zainon Hamzah, Muhammad Kamarul Kabilan

Effectiveness of Integrating Eduwebtv Resources on form Two Students’ Achievement in Learning Science ............................................................................................................................................ 161
   Rosnaini Mahmud, Mohd Arif Hj Ismail, Siti Salbiah Ahmad, Fadellah Abdul Rahman, Nurzululshima Kamarudin

Comparison of the Programming Knowledge of Slovakian and Hungarian Students ........................................................................................... 169
   Gabor Kiss

Teachers’ Perceptions Regarding the Benefits of using the Interactive Whiteboard (IWB): The Case of a Saudi Intermediate School ............................................................................................. 179
   Esmam Bakudam, Mohammed J. Sharbibi Asiri

Ivia: Interactive Video Intelligent Agent Framework for Instructional Video Information Retrieval ........................................................................................... 186
   Emdad Khan, Adel Alsalem
Effect of Novak Colorful Concept Map with Digital Teaching Materials on Student Academic Achievement

Chei-Chang Chiou, Li-Tze Lee, Yu-Quan Liu

The Performance on a Computerized Attention Assessment System between Children with and without Learning Disabilities

Tsui-Ying Wang, Ho-Chuan Huang

A Time and Cost Effective Approach to 3D Scenario Building in a Digital Game Design Class

Ming-Shiou Kuo, Tsung-Yen Chuang

Investigating the Factors Affecting Information and Communication Technology (ICT) Usage of Turkish Students in PISA 2009

Sedat Gunes

Icon Design Principles for Preschoolers: Implications Derived from Child Development

Shuhui Chiu, Chorng-Shih Koong, Sai-Hui Fan

Determining the Relationship between Media Literacy and Social Skills

Seda Akti, Aysum Gürol

Gender Difference of Social Behavior in the Cooperative-Competitive Game

Jon-Chao Hong, Ming-Yueh Hwang, Yu-Chi Peng

Types and Levels of Ubiquitous Technology use among ICT Undergraduates

Muliati Sedek, Rosainani Mahmud, Habibah Ab. Jalil, Shafiee Mohd Daud

Learning and Experience: Teaching Tangible Interaction & Edutainment

Keyur Sorathia, Rocco Servidio

Bologna Process and Anadolu University Open Education System

Kamil Çekerol, Özmun Öztürk

An Assessment of Students’ Mobile Self-Efficacy, Readiness and Personal Innovativeness towards Mobile Learning in Higher Education in Malaysia

Jaziwan Mahat, Ahmad Faezi Mohd Ayub, Su Luan, Wong

Science and Technology Teacher Candidates’ Perceptions about Science and Technology

Fatime Balkan Kiyici

Bridging E-Gaps at PNU by using Alternative Energy

S. A. A. Alkuhaimi, E. S. Almogait

E-learning for English Speaking Skill and the Experiment

Ikuo Kitagaki

A Study of the Selection of Reading Strategies among Genders by EFL College Students

Mei-Ling Lee

Design and Development of a Cloud-based Sign Language Center using Google Sites

Soon Fook Fong, V. Chadra Shakaran, Lee Pei Lin Lily, Fei Ping Por

Learning and Teaching with Technology E-learning as a Motivation in Teaching Physics

Bednarova Renata, Merickova Jana

Constructing an Adaptive Mobile Learning System for the Support of Personalized Learning and Device Adaptation

Ho-Chuan Huang, Tsui-Ying Wang, Fu-Ming Hsieh

Gender Differences in Help-Seeking and Supportive Dialogue During on-Line Game

Jon-Chao Hong, Ming-Yueh Hwang

Using Content-based Humorous Cartoons in Learning Materials to Improve Students’ Reading Rate, Comprehension and Motivation: It is a Wrong Technique?

Chua Yan Piao

Understanding E-Learning System usage Behavior: An Evolutionary Psychology Perspective

Chao-Hui Wu, Tu-Cheng Chen

Web-Based Simulation Learning Framework to Enhance Students’ Critical Thinking Skills

Shaharuddin Md. Salleh, Zaidatun Tasir, Nurbihah A. Shukor

Tangible Multimedia: A Case Study for Bringing Tangibility into Multimedia Learning

Chau Kien Tsong, Toh Seong Chong, Zarina Samsudin

Constructing Knowledge: An Experience of Active and Collaborative Learning in ICT Classrooms

Margarida M. Pinheiro, Dora Simões

A New Approach to Evaluation of University Teaching Considering Heterogeneity of Students’ Preferences

Marija Kuzmanovic, Gordana Savic, Milena Popovic, Milan Martic

iTunes University: Potentials and Applications

Serkan Çelik, Veli Toptas, Tugce Karaca

Learning Culture in a Smart School: A Case Study

Mohammad Attaran, Norlidah Alias, Saeedah Siraj
A Study of using Webcam in Computer Classroom ................................................................. 424
Wan-Chun Lee, Tsu-Hua Huang, Yuan-Chen Liu, Chia-Chie Cheng

The Barriers of using Education Technology for Optimizing the Educational Experience of Learners ................................................................. 427
Juliett Joseph

Use of Educational Materials in Slovenian Secondary Technical Education: The Perspectives of Teachers and Students ................................................................. 437
Damijan Štefanc, Jasna Mežgon

The Ignored Concept on Development of Educational Information Technology ................................................................. 447
Fonling Fu, Sheng-Chin Ya, Chai-Jen Ting

Apply Discovery Teaching Model to Instruct Engineering Drawing Course: Sketch a Regular Pentagon ......................................................................................... 457
Chin-Hsiang Chang

WxMaxima Computer Software as an Aid to the Study of Calculus by Students with Different Learning Approaches ......................................................................................... 467
Ahmad Fauzi Mohd Ayub, Rohani Ahmad Tarmizi, Kamariah Abu Bakar, Su Luan Wong

Education for the Base of the Pyramid People (BOP) using Voice Internet e-Learning ......................................................................................... 474
Emdad Khan

Teachers’ Readiness in Utilizing Educational Portal Resources in Teaching and Learning ......................................................................................... 484
Rosnaini Mahmud, Mohd Arif Hj Ismail, Fadzilah Abdul Rahman, Nurzatulshima Kamaruddin, Aisyatul Radhiyah Raslan

The Development of a Malaysian Model Internship Programme (MyMIP): A Preceptor Model for Nurses in their Early Stage of Profession ......................................................................................... 492
H. Hamidah, M. Maziah, B. Ayesh, T. Subahan, A. Siti Rahayah

The Development of Gross Motor Analysis System Software: A Preliminary Concept ......................................................................................... 501
Borhannudin Abdullah, Wan Marzuki Wan Jaafar, Ahmad Fauzi Mohd Ayub

Language Corpora for EFL Teachers: An Exploration of English Grammar through Concordance Lines......................................................................................... 507
Supakorn Phoocharoensil

The Design of Web-Based Learning Environment to Actively Connect Human Brain and Goble Brain ......................................................................................... 515
Ying-Chi Chen

Role of Attitude in Utilization of Jusur LMS in Saudi Arabian Universities ......................................................................................... 525
Mohammed J. Asiri, Rosnaini Mahmud, Kamariah Abu Bakar, Ahmad Fauzi Mohd Ayub

Learners’ use of Communication Strategies in an Online Discussion via Facebook ......................................................................................... 535
Halizah Omar, Mohamed Amin Embi, Melor Md Yunus

Extending the Technology Acceptance Model to Investigate Impact of Embodied Games on Learning of Xiao-zhuan ......................................................................................... 545
Fan-Chen Lo, Jon-Chao Hong, Ming-Xien Lin, Ching-Yuan Hsu

Technology Anxiety and Implicit Learning Ability Affect Technology Leadership to Promote the use of Information Technology at Elementary Schools ......................................................................................... 555
Hong Jun-Chao, Han Chen-Jer, Dai Chien-Yun, Hwang Ming-Yueh, Lin Pei-Hsin, Chih-Chin Lee

An SEM Model based on PISA 2009 in Turkey: How Does the use of Technology and Self-regulation Activities Predict Reading Scores? ......................................................................................... 564
Okan Bulut, Erhan Delen, Fatih Kaya

Application of Polynomial Trend in Function of Determining Trend Growth of Container Traffic in the Port of Koper ......................................................................................... 574
Nela Jadrijevic, Marko Tomasevic, Cedomir Dandovic, Radovan Antonic

Design and Development of Multimedia Pronunciation Learning Management System for Non-Native English Speakers ......................................................................................... 584
Fei Ping Por, Zaritha Mustafa, Shuki Osman, Hoon San Phoon, Soon Fook Fong

The Utilization of Technology in Teaching of the Arabic Language in Secondary Schools in Riyadh, Saudi Arabia ......................................................................................... 594
Alasaad Haiam

The Impact of Q&A Forums’ Level of Elaboration on Students’ Learning ......................................................................................... 604
Eric Zhi-Feng Liu, Shan Shan Cheng, Sherry Y. Chen, Bo-L. Chen

The Acceptance of the Trainee Counsellors towards Smart Counselling Management System (SCMS) ......................................................................................... 609
Wan Marzuki Wan Jaafar, Normazlina Iismail Mat Jusoh, Borhannudin Abdullah, Ahmad Fauzi Mohd Ayub

Identifying Autism Symptoms using Autism Spectrum Quotient (ASQ): A survey amongst Universiti Sains Malaysia Students ......................................................................................... 618
Jasni Doliah, Wan Ahmad Jaafar Wan Yahaya, Toh Seong Chong, A. Rahman Mohamed

HCI and Eye Tracking Technology for Learning Effect ......................................................................................... 626
Ching-I Wu
Pre-Service Biology Teachers’ Attitudes towards ICT using in Biology Teaching .......................................................... 633
I. Ümit Yapıcı, Murat Hevedanlı

A Study to Evaluate the Social Media Trends among University Students ................................................................. 639
Irshad Hussain

Towards the E-learning Document Proceduralisation in Sport...................................................................................... 646
Souad El Harrassi, Patrizia Laudati

Replacing Paper-based Testing with Computer-based Testing in Assessment: Are we Doing Wrong?............... 655
Chua Yan Piao

A Development of Training Model based on Constructivism Theory for Teachers under the Jurisdiction of the basic Education Commission ............................................................................................................ 665
Nattakorn Papan, Narong Sompong

Using Video Technology to Diagnose EFL Students’ Cognitive Learning Difficulties in Public Speaking .......................................................................................................................................................................................... 671
Yow-Jyy Joyce Lee, Jung-Chin Liang

Knowledge Sharing Behavior in E-Learning Materials Developing Team ............................................................................................................ 681
Shih-Hwa Liu, Gwo-Guang Lee

Ontologies for Personalization: A New challenge for Instructional Designers ................................................................. 691
Arif Altun

Author Index