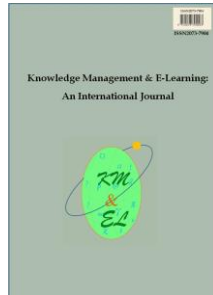

Knowledge Management & E-Learning



ISSN 2073-7904

Editor-in-Chief

Maggie M. Wang

The University of Hong Kong, Hong Kong

Co-Editor-in-Chief

Haoran Xie

Lingnan University, Hong Kong

Stephen J. H. Yang

National Central University, Taiwan

Executive Editors

Bian Wu

East China Normal University, China

Muhammad Shujahat

University of Essex, Southend-on-Sea, United Kingdom

Juanjuan Chen

Zhejiang University, China

Lingyun Huang

The Education University of Hong Kong, Hong Kong

Managing Editor

David H. Jiang

The University of Hong Kong, Hong Kong

Editorial Advisory Board

Neil Mercer

University of Cambridge, UK

Paul A. Kirschner (AERA Fellow; ISLS Fellow)

Open University of the Netherlands, NL

Demetrios G. Sampson

University of Piraeus, GR

Jonathan Grudin (ACM Fellow; CHI Fellow)

Microsoft Research, USA

Fanny Klett (IEEE Fellow)

German Workforce ADL Partnership Laboratory, DE

Dr. Kinshuk

University of North Texas, USA

Michael J. Jacobson

The University of Sydney, AU

Kuldeep Kumar

Florida International University, USA

Tefko Saracevic (ASIS Award of Merit)

Rutgers University, USA

Qiang Yang (IEEE; AAAI; AAAS; IAPR Fellow)

Hong Kong University of Science and Technology, HK

J. Michael Spector (IBSTPI Fellow)

University of North Texas, USA

Chin-Chung Tsai

National Taiwan Normal University, TW

Cher Ping Lim

The Education University of Hong Kong, HK

Jay Liebowitz

University of Maryland University College, USA

Toshio Okamoto

University of Electro-Communications, JP

Nian-Shing Chen

National Yunlin University of Science and Technology, TW

Rob Koper

Open University of the Netherlands, NL

Doug Vogel (AIS Fellow)

City University of Hong Kong, HK

Huaiqing Wang

City University of Hong Kong, HK

Fred Paas (AERA Fellow)

Erasmus University Rotterdam, NL

Associate Editors

Patricia A. Abbott (ACMI Fellow; AAN Fellow)

University of Michigan, USA

Xun Ge

University of North Texas, USA

Anders Morch

University of Oslo, NO

Shengquan Yu

Beijing Normal University, CN

Waltraut Ritter

Knowledge Enterprises, HK

Meng Sun

Beijing Normal University, Zhuhai, CN

Rajiv Khosla

La Trobe University, AU

Alexandra I. Cristea (BCS Fellow)

Durham University, UK

Michael Chau

The University of Hong Kong, HK

Mark Klein

Massachusetts Institute of Technology, USA

Andre W. Kushniruk (ACMI Fellow; CAHS Fellow)

University of Victoria, CA

Jürgen Moormann

Frankfurt School of Finance & Management, DE

Siu Cheung Kong

The Education University of Hong Kong, HK

Jiutong Luo

Shenzhen University, CN

Murali Raman

INTI International University, MY

David Guralnick

Kaleidoscope Learning, New York, USA

Jiyou Jia

Peking University, CN

Jun Peng

City University of Macau, MO

Editorial Board Members

Irene Y. L. Chen

National Changhua University of Education, TW

Heinz Ulrich Hoppe

University Duisburg-Essen, DE

Yiling Hu

East China Normal University, CN

Hokyo Lai

Hong Kong Baptist University, HK

Jian Liao

Penn State University, State College, USA

Kiyoshi Nakabayashi

Chiba Institute of Technology, JP

Mark E. Nissen

Naval Postgraduate School, USA

Chiu-Lin Lai

National Taipei University of Education, TW

Mudasser F. Wyne

National University, USA

Wenying Zhou

Michigan State University, USA

Lisa Mwaikambo

Johns Hopkins University, USA

Aleema Shuja

Rensselaer Polytechnic Institute, USA

Yuhan Liu

The University of Hong Kong, HK

Sdenka Z. Salas-Pilco

Central China Normal University, CN

Sabine Graf

Athabasca University, CA

Elizabeth Borycki

University of Victoria, CA

Piera Centobelli

University of Naples Federico II, IT

Chien-Sing Lee

Sunway University, MY

Marcelo Milrad

Linnaeus University, SE

Tosh Yamamoto

Kansai University of International Studies, JP

Ijaz A. Qureshi

The University of Lahore, PK

Bei Yuan

Zhongshan Teacher Development Center, Guangdong, CN

Umar Farooq Sahibzada

University for the Creative Arts, UK

Sun Joo Yoo

Kongju National University, KR

Jenny S. Wakefield

Dallas County Community College, USA

Roberto Cerchione

University of Naples Parthenope, IT

Dongpin Hu

The Education University of Hong Kong, HK

Assistant Managing Editors

Chenjia (Ivy) Zhu

The University of Hong Kong, Hong kong

Yunian (Diana) Zhang

The University of Hong Kong, Hong kong

Contents

- 332 **Applying emotion regulation strategies in complex tasks**
 Yuhan Liu, Minhong Wang and Haoran Xie
- 349 **Evaluating the impact of artificial intelligence in mathematics education:
 A systematic literature review**
 *Lukman Hakim Muhaimin, Turmudi Turmudi, Asllan Vrapı, Didi Suryadi,
 Agus Hendriyanto and Sani Sahara*
- 372 **From threat to tool: AI self-efficacy and user profiles in higher education**
 *Herianto Herianto, Eko Wahyudi, Andi Jusmiana, Habib Ratu Perwira
 Negara, Ansyari Ansyari and Sarah Samben*
- 393 **Integrating experiences of prospective science teachers in developing
 materials with web 2.0 tools within the context of student-led
 instructional activities**
 Mustafa Yeler
- 430 **Mining and modelling the cognitive strategies students use to construct
 higher quality causal maps**
 Allan Jeong and Hyoung Seok Shin
- 446 **The use of virtual reality for skill development in entrepreneurship
 education: A systematic literature review**
 Lynn Long and Avgoustos Tsinakos
- 476 **Social entrepreneurship: Design and implementation of personalized 3D
 objects to enhance the autonomy of visually impaired people**
 *Pablo Fernández-Arias, María Sánchez-Jiménez, Patricia Castro-López,
 María Sánchez-Calvo, Amelia Barrientos-Fernández, María Nieto-Sobrino
 and Diego Vergara*
- 493 **The impact of computer-based testing on EFL university students'
 reading and listening skills test performance and test anxiety levels**
 Andrew Ghaly