Final Conference Program
Hong Kong 2019

Friday 8th, February 2019

08:30-18:50 Welcome Desk (closes for lunch: 12:30 – 13:45)
(Room SEK106)

09:45-10:00 Session O – Opening Session
Room Lecture Theatre

OPENING SESSION
Prof. Pedro Isaías and Wendy Hui

10:00-11:00 Session KL1 – Keynote Presentation
Room Lecture Theatre

CYBERSECURITY: CHALLENGES AND RECENT DEVELOPMENTS
by Kai-Lung Hui, Chair Professor, Department of Information Systems, The Hong Kong University of Science and Technology, Hong Kong

11:00-11:30 Coffee Break

11:30-12:30 Session KL2 – Keynote Presentation
Room Lecture Theatre

THE DIGITAL TRANSFORMATION OF K-12: FROM DIGITIZED CURRICULUM TO DEEPLY-DIGITAL CURRICULUM
by Cathie Norris, Regents Professor, University of North Texas, Denton, TX, USA and Elliot Soloway, Arthur F. Thurnau Professor, University of Michigan, Ann Arbor, MI, USA

12:45-13:45 Lunch Break

14:00-15:45 Session FRP 8.1 - ITS
Human Computer Interaction and Usability // Social Integration
Room SEK104
Chair: Tewfiq El Maliki

CORRELATION BETWEEN WEB PERFORMANCE AND USABILITY (F060)
Yuji Doken, Hajime Iswata, Junko Shirogane and Yoshiaki Fukazawa

PERSONALIZED SCHOLARLY ARTICLE RECOMMENDATIONS BASED ON THE RECURRENT NEURAL NETWORK AND PROBABILISTIC MODELS (F082)
Eric Brewer, Yu-Kai Ng and Alisha Bansktota

TARGETING THERAPEUTIC GAMES TO ADULTS WITH AUTISM SPECTRUM DISORDER (F110)
Joseph Bills and Yu-Kai Ng

PARTITIONING FRAMEWORK USING ONTOLOGY (R112)
Eain Choi, WonSeok Kim and Byambasuren Temuujin

14:00-16:00 Session FP 8.2 - ICEduTech
Learner Orientation
Room SEK107
Chair: Hagit Meishar-Tal

DEVELOPING A PRODUCTIVE KNOWLEDGE-BUILDING DISCOURSE THROUGH JUDGMENTS OF PROMISING IDEAS AND EPISTEMIC REFLECTION (F025)
Liang Chang, Quanqian Chen, Yuqin Yang and Xuan Qian

USING PHYSICAL LOGIC GATES TO TEACH DIGITAL LOGIC TO NOVICE COMPUTING STUDENTS (F074)
Wee Lum Tan and Sven Venema

CHARACTERIZING THE DYNAMICS AND TENSIONS IN THE SOCIAL PRACTICES OF LOW-ACHIEVING STUDENTS IN A KNOWLEDGE-BUILDING ENVIRONMENT (F020)
Yuqin Yang

AN EXPERIMENTAL STUDY OF AN EDUCATIONAL INTERVENTION TO CHANGE GOAL ORIENTATION (F116)
Mai Yokoyama and Kazuhisa Miwa
15:00-16:00 Tutorial
Room SEK108
A TASTE OF CLASSIFICATION TECHNIQUES – AN EDUCATIONAL DATA MINING TUTORIAL FOR BEGINNERS
by Dr. Dennis Foung, The Hong Kong Polytechnic University, Hong Kong

16:00-16:30 Coffee Break

16:30-18:30 Tutorial
Room SEK108
A TASTE OF CLASSIFICATION TECHNIQUES – AN EDUCATIONAL DATA MINING TUTORIAL FOR BEGINNERS
by Dr. Dennis Foung, The Hong Kong Polytechnic University, Hong Kong

16:30-18:40 Session FSP 8.3 - ICeduTech
International Higher Education // Curricular Evolution
Room SEK104
Chair: Paul Lam
DIVERSITY IMPLICATIONS OF ONLINE LEARNING OF CODING (F049)
Matthew Lane, Wendy Hal, Karen Marcia and Pornpit Wongthongham

AN INVESTIGATION INTO THE EFFECTS OF PROGRAMMING WORKSHOP EXPERIENCES ON PARENTS’ CONCERNS
ABOUT PROGRAMMING EDUCATION IN ELEMENTARY SCHOOL (F076)
Yukiko Maruyama

COLLECTIVE WISDOM OF FLIPPED CLASSROOMS IN HONG KONG HIGHER EDUCATION: PREPARING FOR
POTENTIAL CHALLENGES (F073)
Paul Lam, Carmen K. M. Lau and Chi Him Chan

FACULTY-STUDENTS ONLINE COMMUNICATION CHANNELS (S015)
Hagit Meishar-Tal and Efrat Pieterse

INVESTIGATING TEACHERS’ PEDAGOGICAL PRACTICES AND BELIEFS REGARDING DEVELOPING CREATIVE
THINKING IN ELEMENTARY SCHOOL STUDENTS (S149)
Yufeng Sun, Yanwen Long and Yuqin Yang

16:30-18:30 Session FSP 8.4 - STE
Sustainability and Environment // Education for Sustainability
Room SEK107
Chair: William K. Koomson
DEGRADATION OF WATER HYACINTH (EICHHORNIA CRASSIPES) TO VERMICOMPOST THROUGH APPLICATION
OF THE VERMICOMPOSTING TECHNOLOGY (F028)
Mercy M. Manyuchi, Charles Mbohwa, Edison Mazenda, Trevor N. Mutusva and Miranda Mpeta

EDUCATION FOR SUSTAINABLE DEVELOPMENT IN THE EFL CLASSROOM: EXPLORING INTERSUBJECTIVITY (F024)
Jackson Ver Steeg Jr.

POTENTIAL TO USE BIO CHAR IN MERCURY REMOVAL FROM GOLD MINING TAILINGS WASTEWATER (F030)
Mercy M. Manyuchi, Charles Mbohwa and Edison Mazenda

INFORMATION MANAGEMENT IN ARCHITECTURE – OFF-GRID CAPABLE COMPLEX (S086)
Anna Brudnicka and Adam Rybka
Saturday 9th, February 2019

08:30-16:00 Welcome Desk (closes for lunch: 12:30 – 13:45)
(Room SEK106)

09:00-10:00 Posters Session
Room SEK107
Chair: Pedro Isaias
DEVELOPING A VIDEO CLIP FOR MATHEMATICS CLASS AT NIGHT HIGH SCHOOL (P025)
Kentaro Hara, Yuki Watanabe and Katsuhiko Shimizu
AN ONLINE INTERCULTURAL EXCHANGE BETWEEN JAPANESE AND SPANISH STUDENTS AND SOME REFLECTIONS FOR FUTURE PROJECTS (P029)
Ilias Valls Campà and Juan Manuel Díaz Ayuga
A TEXT-MINING ANALYSIS OF ONLINE REVIEWS ON CAR-SHARING SERVICES (P084)
Yan Jik Jeong, Yeon Ji Yang, Jaehye Suk and Kee Ok Kim
AN OPINION MINING OF ONLINE TEXTS ON THE SOCIAL CURATION SERVICE, ‘PINTEREST’ (P095)
Yeon Ji Yang, Yan Jik Jeong, Jaehye Suk and Kee Ok Kim
CONSUMER SUPPORT OR DISAPPROVAL OF COMPANIES AS REVEALED BY SOCIAL BIG DATA (P101)
Jihyung Hong, Hyesun Hwang and Hyewon Lim
A STUDY OF CONSUMER INFORMATION LITERACY BY INFORMATION SEARCH TYPE (P102)
Yu Lim Lee and Jae-Eun Chung
CONTINUOUS USE INTENTION OF MOBILE PAYMENT – COMPARISON OF ALIPAY AND WECHAT PAY (P105)
Fa-Cheng Tan, Hyesun Hwang, Hyewon Lim, Joo-hyun Park and Ji-hyung Hong
CONSUMER RISK PERCEPTIONS IN CROSS-BORDER ONLINE SHOPPING: COMPARING FOUR COUNTRIES (P114)
Minji Jung, Hoonsam Yang and Jee-Eun Chung
NEW PROGRAMMING EDUCATION FOCUSING ON PROBLEM SOLVING SKILLS BY “POV-RAY” (P123)
Jumpei Gohara, Yuki Watanabe, Akifumi Sako and Mitsuaki Fujita

09:00-11:00 Session FSP 9.1- ICEduTech
Education in Context // Other
Room SEK104
Chair: Hiroshi Kato
VOCABULARY SKILLS DEVELOPMENT AMONG STUDENTS: AN ETHNOGRAPHY (F061)
Charito G. Ong, Elva S. Maramara, Sophomore T. Vacalares and K Marie D. Zambas
EXPLORING EMERGING MENTORING PRACTICES IN NEW ECOSYSTEMS OF LEARNING IN FINLAND (F128)
Irja Leppisaari
DEVELOPING 21ST CENTURY INTERCULTURAL AND COLLABORATIVE COMPETENCIES THROUGH TRANSFORMATIVE INTERNATIONALISATION PROJECTS: A POST NEO-COLONIALISM APPROACH (S110)
Prantit Anand and Byron Lai
STUDY OF A VISUALIZATION SYSTEM OF THE CONCENTRATION DEGREE BY BIOLOGICAL SIGNALS -CASE OF ACTIVE LEARNING- (S064)
Kuniaki Yajima, Keichi Yonemura, Yoshitiro Takeichi and Jun Sato
INVESTIGATION OF WHETHER UNDERGRADUATES CAN TAKE COLLECTIVE COGNITIVE RESPONSIBILITY IN THE KNOWLEDGE BUILDING PROCESS (S151)
Qianqian Chen, Yuqin Yang and Chen Xu

10:00-11:00 Session FP 9.2 - STE
Sustainability and Green IT
Room SEK107
Chair: Wendy Hui
ANAEROBIC DIGESTION OF KITCHEN AND SEWAGE SLUDGE BIO WASTE TO BIOGAS USING ENGINEERED BIO CATALYSIS (F027)
Mercy M. Manyuchi, Charles Mbohua and Edison Macondo
ANALYSIS OF COMBUSTION BEHAVIOR AND PHYSICAL PROPERTIES OF WATER-DIESEL (F082)
Jonghan Won and Seung Wook Baek

11:00-11:30 Coffee Break

11:30-12:30 Session KL1 – Keynote Presentation
Room Lecture Theatre
USING COMPANION ROBOTS FOR RESEARCH AND EDUCATION
by Professor Patrick C. K. Hung, Faculty of Business and IT, University of Ontario Institute of Technology, Canada

12:45-13:45 Lunch Break
### 14:00-16:00 Session FP 9.3 - ITS

**Internet Technologies**
Room SEK104

**Chair:** Yiu-kai Ng

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<td>Tewfiq El-Maliki, Noria Foukia and Oumayma Zelfani</td>
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<td>Scaling Agile Frameworks vs. Traditional Project Portfolio Management: Comparison and Analysis (F047)</td>
<td>Andreas Grundler and Markus Westner</td>
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<td>Mitsumasa Ota, Ryuichi Takahashi and Yoshiaki Fukazawa</td>
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<td>Stability-Based Live Migration Using Dynamic Margin (F062)</td>
<td>Ryu Sakamoto, Ryuichi Takahashi and Yoshiaki Fukazawa</td>
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### 14:00-16:00 Workshop

**Room SEK107**

Managing Digital Curricula Using the Free, Device-Independent Collaborify Roadmap System

by Cathie Norris, Regents Professor, University of North Texas, Denton, TX, USA and Elliot Soloway, Arthur F. Thurnau Professor, University of Michigan, Ann Arbor, MI, USA

### 16:30 Social Event

#### Sunday 10th, February 2019

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<td>09:00-11:00</td>
<td>Session FSP 10.1 - ICEduTech Education as Professional Field // Recognizing Students’ Learning Styles Room SEK104 Chair: William K. Koomson</td>
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<td>11:00-11:30</td>
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<td>Session FSP 10.2 - ITS e-Government / e-Governance Room SEK104 Chair: Tewfiq El Maliki</td>
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<td>Capturing Mobile Collaboration in Active Learning: Lessons from a Longitudinal Mixed Methodologies Study (F030)</td>
<td>Peter Illi</td>
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<td>Communicative Teaching in the Tertiary Level (S057)</td>
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<td>Challenges and Support for the Development of Novice Teachers’ Professional Identities (S114)</td>
<td>Fariza Khalid and Hazrati Husnin</td>
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<td>Deployment of a Generic Method in the Design of Digital Learning Environments Using a Collaborative Authoring Tool (S138)</td>
<td>Carlos Bohorquez and Pascal Marquet</td>
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<td>Exploring the Behavioral Intention to Use E-Government Services: Validating the Unified Theory of Acceptance and Use of Technology (F098)</td>
<td>Mark Anthony Camilleri</td>
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<td>Co-Design to Self-Organizing Exergaming – A Study of Stimulating Physical Activity for Elderly People with a Chronic Health Condition (F080)</td>
<td>Linda Askenäs, Jan Aidemark, Tiny Juuruma, Anna Stromberg and Leonie Klompstra</td>
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11:30-12:50 Session FSP 10.3 - ICEduTech
Integrating Educational Technologies
Room SEK107
Chair: Fariza Khalid

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<td>ONTOLOGY OF UBIQUITOUS LEARNING: WHATSAPP MESSENGER COMPETES SUCCESSFULLY WITH LEARNING MANAGEMENT SYSTEMS (LMS) IN GHANA (F014)</td>
<td>William K. Koomson</td>
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<td>EFFECTS OF INTERACTION STRATEGIES ON STUDENTS’ MUSIC LISTENING WITH A MOBILE APPLICATION (F100)</td>
<td>Yoomee Baek and Sungji Cho</td>
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<td>LEARNING A LANGUAGE THROUGH GAMING: A MINECRAFT GAME DESIGN FOR NEGOTIATION OF MEANING AND CO-CONSTRUCTION OF KNOWLEDGE (S104)</td>
<td>Joeun Baek and Hyekyeong Park</td>
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12:50 Best Paper Awards Ceremony and Closing Session
Room SEK104

CLOSING SESSION
Profs. Pedro Isaías and Wendy Hui