# Final Conference Program

**Sydney, Australia**

**Monday 11th, December 2017**

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<td>09:45-10:00</td>
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<td>Pedro Isaías and Ana Hol</td>
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<td>10:00-11:00</td>
<td>Session KLI – Keynote Presentation</td>
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<td>UNIVERSITIES IN 2020S</td>
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<td>by Associate Professor Ana Hol, Western Sydney University, Australia</td>
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<td>TEACHER DASHBOARDS: CRITICAL INSIGHTS AND INFORMED DESIGN CONSIDERATIONS</td>
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<td>by Associate Professor Pedro Isaías and Solange Lima, The University of Queensland, Australia</td>
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<td>BIBLIOMETRIC SCIENCE MAPPING AS A POPULAR TREND: CHOSEN EXAMPLES OF VISUALISATION OF INTERNATIONAL RESEARCH NETWORK RESULTS (F141)</td>
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<td>Eugenia Smyrnova-Trybulska, Nataliia Morze, Olena Kaciminska and Piet Kommers</td>
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<td>OPTIMIZE KNOWLEDGE SHARING, TEAM EFFECTIVENESS, AND INDIVIDUAL LEARNING WITHIN THE FLIPPED TEAM-BASED CLASSROOM (F082)</td>
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<td>Chung-Kai Huang, Chun-Yu Lin, Zh-Cin Lin, Cui Wang and Chia-Jung Lin</td>
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<td>MOOC AS A LABORATORY OF CULTURE SHOCK: HELPING NON-U.S. STUDENTS INTEGRATE INTO ALL-AMERICAN VIRTUAL ENVIRONMENT (S017)</td>
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<td>Valeri Chukhlomin and Anant Deshpande</td>
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14:30-16:30 Session FSP 11.3

**e-Business / e-Commerce // Social Networking and Marketing**

Room 3

**Chair: Shahriar Shirvani Moghaddam**

**AN EXPLORATION OF THE FACTORS THAT IMPACT CUSTOMER EXPERIENCE IN SOCIAL COMMERCE WEBSITES**
(H106)
Hasan Beyari, Ahmad Abareshi and Ismail Elferjani

**OBM-CENTRIC DIGITAL MARKETING DEVELOPMENT FOR HIGH-TECH SERVICES – A CASE STUDY**
(F114)
Amy J.C. Trappey, Charles V. Trappey and Usharani Hareesh Govindarajan

**THE IMPACT OF SOCIAL PRESENCE AND TRUST ON CUSTOMER LOYALTY TO SOCIAL COMMERCE WEBSITES**
(S091)
Hilal Alhulail, Martin Dick and Ahmad Abareshi

**THE ROLE OF SOCIAL MEDIA IN THE MILITARY**
(S019)
Namissha Veevasamy and William Aubrey Labuschagne

**THE SATISFACTION OF CUSTOMERS TOWARD SOCIAL COMMERCE WEBSITE: APPLYING INFORMATION SYSTEMS SUCCESS MODEL**
(S095)
Hilal Alhulail, Martin Dick and Ahmad Abareshi

14:30-16:20 Session FSP 11.4

Integrating Educational Technologies // Other

Room 4

**Chair: Peter Bryant**

**DESIGN AND DEVELOPMENT OF AN INTERACTIVE MULTIMEDIA SIMULATION FOR AUGMENTING THE TEACHING AND LEARNING OF PROGRAMMING CONCEPTS**
(F042)
Leonah L. Baloyi, Sunday O. Ojo and Etienne A. Van Wyk

**INTRODUCING TABLETS IN A PORTUGUESE SCHOOL: A MICOOL PROJECT CASE STUDY ANALYSIS**
(F137)
Miriam Judge

**COLLEGE COMMUNICATIVE TEACHING AND E-LEARNING: A TRAINING SCHEME**
(F128)
Charito G. Ong

**COMMUNICATION SCAFFOLDS FOR PROJECT MANAGEMENT IN PBL**
(S127)
Shigeru Sasaki, Masayuki Arai, Kumiko Takai, Mitsuhiro Ogawa and Hiroyoshi Watanabe

16:30-17:00 Coffee Break

17:00-18:50 Session FSP 11.5

**Internet Technologies**

Room 3

**Chair: Ana Hol**

**P2P LOAD DISTRIBUTION OF CONTENT DISTRIBUTION IN EDGE COMPUTING**
(F072)
Takuya Fukuda, Noriko Matsumoto, Norihiko Yoshida

**A NOVEL RESOURCE REUSE ALGORITHM FOR DEVICE TO DEVICE COMMUNICATIONS**
(F075)
Shahriar Shirvani Moghaddam

**FROM NETWORKING TO COLLABORATION: ROLE OF TRUST, RISK AND REWARDS IN ENHANCING ONLINE WORKING TOGETHER RELATIONS**
(F128)
Mousa Abu Kasef, Athula Ginige and Ana Hol

**CONCEPT ORIENTED DATA AGGREGATION IN EDGE COMPUTING**
(S070)
Ryuichiro Hiranuma, Noriko Matsumoto and Norihiko Yoshida

17:00-18:40 Session FSP 11.6

**Sustainability and Green IT // Sustainability and e-Society**

Room 4

**Chair: Mercy Manyuchi**

**DISCRIMINANT ANALYSIS AS A TOOL OF ASSESSING INDIVIDUAL CREDIT RISK IN POLAND'S COOPERATIVE BANKS**
(F037)
Rafal Balima and Slawomir Jaszczyk

**VERMICOMPOSTING OF SOYBEAN AND MAIZE STRAW RESIDUES AS AN AGRO WASTE MANAGEMENT INITIATIVE**
(F024)
Masaida Mercy Manyuchi, Charles Mbohwa and Edison Muzenda

**E-WASTE: DISPOSAL BEHAVIOUR OF ICT PRODUCTS BY INDIAN HOUSEHOLDS**
(S021)
Venugopal Pingali and Gautam Pingali

**HIGHER EDUCATION INSTITUTIONS AND THEIR PART IN THE GLOBAL SUSTAINABLE DEVELOPMENT AGENDA: ACCOUNTING FOR ACTORS AND OUTCOMES**
(S058)
Megan Power
17:00-19:00 Session FP 11.7
Social Media and Social Networking // Motivating Students
Room 2
Chair: Dave Smith

IT DOESN'T MATTER WHAT IS IN THEIR HANDS: UNDERSTANDING HOW STUDENTS USE TECHNOLOGY TO SUPPORT, ENHANCE AND EXPAND THEIR LEARNING IN A COMPLEX WORLD (F096)
Peter Bryant

A COMPARATIVE STUDY ON SOCIAL MEDIA ADDICTION OF HIGH SCHOOL AND UNIVERSITY STUDENTS (F118)
Ali Simsek, Kemal Eliciyar and Taner Kizilhan

COMPUTER LITERACY TEACHING USING PEER LEARNING AND UNDER THE CONFUCIAN HERITAGE CULTURAL SETTINGS OF MACAO, CHINA (F046)
Kelvin Wong, Ana Neves and Joao Negreiros

APPLYING SENSORS TO INVESTIGATE GENDER DIFFERENCES IN BEGINNING TENNIS PLAYERS (F091)
Chih-Hung Yu, Jye-Shyan Wang and Cheng-Chih Wu

Tuesday 12th, December 2017

08:30-15:45 Welcome Desk

08:45-11:00 Session FRP 12.1
Sustainability and Education
Room 3
Chair: Rafał Balina

UNIVERSITY THESES IN THE CONTEXT OF THE SUSTAINABILITY OF THE QUALITY OF EDUCATION AT UNIVERSITIES (F072)
Josef Malach and Kateřina Malachová

ENVIRONMENTAL EDUCATION AND ITS ROLE IN RESTORING NATIVE ECOSYSTEMS AT SAINT NARSAI ASSYRIAN CHRISTIAN COLLEGE, HORSLEY PARK (F133)
Ornilla Shamon, AnneMarie Clements, Anne Baumann, Grant Webster, Maddy Young and Rosemary Snowden

FOR WHICH SOCIOECONOMIC SEGMENTS ARE PARENTAL EXPECTATIONS OF EDUCATIONAL ATTAINMENT MORE SENSITIVE TO THEIR CHILDREN PERFORMANCE? (F128)
Roberto Araya, Raúl Gormaz and Obed Ulloa

THE IMPOSSIBILITY OF TEAMWORK IN IRANIAN UNIVERSITY CLASSES: A STUDY OF ONE OF THE OBSTACLES TO THE REALIZATION OF SUSTAINABLE DEVELOPMENT IN A COUNTRY IN TRANSITION (F061)
Reza Sanim

PILOT VERIFICATION OF “TOOLS FOR ADAPTIVE LEARNING” MODULE BY PHD STUDENTS AT UNIVERSITY OF OSTRAVA (R089)
Josef Malach, Tatiana Prextová, Milan Chmura and Kateřina Kostolányová

09:00-11:00 Session FSP 12.2
Educational Games // Learner Orientation
Room 4
Chair: Wee Lum Tan

REDESIGNING LEARNING SPACES: WHAT DO TEACHERS WANT FOR FUTURE CLASSROOMS? (F107)
Neuza Pedro

TESTED STRATEGIES FOR RECRUITING AND RETENTION OF STEM MAJORS (F037)
Sadegh Davari, Sharon Perkins-Hall and Krishani Aheyseker

DIGITAL PEDAGOGIES FOR TEACHERS’ CPD (S140)
Matthew Montebello

SENSING LOCALLY IN THE GLOBAL ENVIRONMENT: USING SENSORS IN TEACHERS’ EDUCATION (S124)
Maria João Silva, António Almeida, Bianor Valente, Margarida Rodrigues and Vítor Monteigas

THE USE OF A DIGITAL BADGE AS AN INDICATOR AND A MOTIVATOR (S120)
Jun Iwata, John Telloyan, Lynne Murphy, Shudong Wang and John Clayton

11:00-11:30 Coffee Break
11:30-12:30 Session KL2 – Keynote Presentation
Room 3

THE FUTURE OF LEARNING TECHNOLOGIES IN HIGHER EDUCATION
Associate Professor Pedro Isaias, The University of Queensland, Brisbane, Australia

12:30-13:00 Posters Session
Room 3
Chair: Ana Hol

TRANSBASO: ENHANCING THE EDUCATIONAL AND SOCIAL EFFICIENCY OF THE TRANSITION BETWEEN PRIMARY AND SECONDARY EDUCATION (P122)
Christian Van Kerckhove

A SYSTEM FOR CLASS REFLECTION USING IPADS FOR REAL-TIME BOOKMARKING OF FEEDBACKS INTO SIMULTANEOUSLY RECORDED VIDEOS (P066)
Tairo Nakajima

ROLES, STRATEGIES AND IMPACT OF MOOCS ON FLIPPING BUSINESS EDUCATION (P086)
Chung-Kai Huang, Chun-Yu Lin, Zih-Cin Lin and Cai Wang

GAMIFYING OUTDOOR SOCIAL INQUIRY LEARNING WITH CONTEXT-AWARE TECHNOLOGY (P139)
Morris Siu-yung Jong, Tom Chan, Vincent Tam and Ming-Tak Hue

13:00-14:30 Lunch Break

14:30-15:20 Session FSP 12.3
Educational Systems Design
Room 3
Chair: Neuza Pedro

THE USE OF MOBILE MESSAGING APPS TO SHARE INFORMATION AMONG LECTURERS IN BRAZIL (F086)
Marcos da Silva Araújo and Ricardo Rodrigues Barbosa

RECOGNITION OF HANDWRITTEN SCHEMATIC SYMBOLS AND ITS APPLICATION TO A WEB-BASED EDUCATION SYSTEM FOR ELECTRONIC CIRCUIT CONSTRUCTION (S110)
Atsushi Takemura

14:10-15:30 Session FSP 12.4
Internet Technologies // e-Health
Room 4
Chair: Namosh Vaerasamy

SECURE IMAGE WATERMARKING IN COMPRESSED ENCRYPTED DOMAIN USING ASWDR COMPRESSION AND PAILLIER CRYPTOSYSTEM (F119)
Ritu Gupta, Anurag Mishra, Sarika Jain and Girija Chetty

GAMIFICATION IN E-MENTAL HEALTH: DEVELOPMENT OF A DIGITAL INTERVENTION ADDRESSING SEVERE MENTAL ILLNESS AND METABOLIC SYNDROME (F021)
Alex Shaw, David Paul, William Billinghrey, Paul Kwan and Rhonda Wilson

INTEGRATING TECHNOLOGY, BUSINESS, USER AND ORGANIZATIONAL PERSPECTIVES IN EHEALTH SERVICE DEVELOPMENT (S140)
Jan Aidemark, Linda Askenäs and Niclas Eberhagen

15:45 Social Event
**Wednesday, 13th December 2017**

08:30-13:10 Welcome Desk

09:00-11:05 – Session FSRP 13.1

Social and Organizational Aspects

Room 3

Chair: Atsushi Takemura

| DIGITAL MARKET FORMATION: A CASE STUDY FROM COMMERCIAL LIGHTING INDUSTRY (F124) | Ashini Wesumperuma and Upul Gunawardana |
| REMIS CLOUD: A DISTRIBUTED INFORMATION MANAGEMENT SYSTEM FOR INTERDISCIPLINARY KNOWLEDGE LINKAGE (F082) | Daniel Kaltenhailer, Johannes-Y. Lohrer, Florian Richter and Peer Krüger |
| A LINKED OPEN DATA AND SEMANTIC CITIZEN VOCABULARY FOR PUBLIC ADMINISTRATION: A FIRST EXPLORATION AND IMPLEMENTATION (F087) | Martijn Hartog and Bert Mulder |
| PREDICTION OF AGRICULTURAL PRODUCTS PRICE WITH LSTM NETWORK (S143) | Sungwo Shin, Mikiyung Lee, Seongghan Kim and Sa-Kwang Song |
| ANALYSIS ON PERFORMANCE DIFFERENCE IN ICT PROJECTS WITH DIFFERENT CHARACTERISTICS IN KOREA (R079) | Jeong A. Choi, Mu Jeong Kang and Heein Yang |

08:50-11:00 – Session FSP 13.2

Motivating Students

Room 4

Chair: Krishani Abeysekera

| DIMENSIONS OF SELF-PERCEIVED EMPLOYABILITY IN FIRST YEAR IT STUDENTS (F028) | Anns Antonio and David Tuffley |
| USING ARDUINO TO TEACH PROGRAMMING TO FIRST-YEAR COMPUTER SCIENCE STUDENTS (F078) | Wee Lam Tan, Sven Venema and Ruben Gonzalez |
| CHALLENGES FOR A NEW GENERATION OF STEM STUDENTS (F033) | Krishani Abeysekera, Sharon Perkins Hall, Sadegh Davari and Amanda Smith Hackler |
| EXPLORING THE EDUCATIONAL POTENTIAL OF MINECRAFT: THE CASE OF 118 ELEMENTARY-SCHOOL STUDENTS (S034) | Thierry Karsenti and Julien Bugmann |
| DIGITAL STORY CREATION: ITS IMPACT TOWARDS ACADEMIC PERFORMANCE (S138) | Charito G. Ong |

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 13.3

Peer- and Collaborative Learning

Room 3

Chair: Maria João Silva

| LEARNING GROUP FORMATION FOR MASSIVE OPEN ONLINE COURSES (MOOCS) (F108) | Sankalp Prabhakar and Omar K. Zaiane |
| ICE: AN AUTOMATED TOOL FOR TEACHING ADVANCED C PROGRAMMING (F059) | Ruben Gonzalez (presented by Wee Lam Tan) |
| COLLABORATIVE PEER FEEDBACK (S122) | David A. Smith |

11:30-13:20 Session FSP 13.4

Sustainability and Environment

Room 4

Chair: Roberto Araya

| EFFECT OF TEMPERATURE ON CARBON DIOXIDE ABSORPTION USING SODIUM HYDROXIDE IN BIOGAS UPGRADEING (F076) | Ireen Maile, Edison Mazenda and Charles Mbohwa |
| DESIGN CONSIDERATIONS FOR AN ENGINEERED LANDFILL (F104) | Masaida Mercy Manyuchi, Charles Mbohwa and Edison Mazenda |
| ENHANCING BIOGAS PRODUCTION THROUGH CO-DIGESTION OF ANIMAL WASTE AND GRASS (F077) | Ireen Maile, Edison Mazenda and Charles Mbohwa |
| WASTE-TO-ENERGY - REVIEW OF WASTE MANAGEMENT ACTIVITIES AND CHALLENGES, PAPUA NEW GUINEA (S029) | Syed M S Wahid |

13:20 Best Paper Awards Ceremony and Closing Session

Room 3

CLOSING SESSION

Pedro Isaias and Ana Hol