

# Preliminary Conference Program

Melbourne, Australia

**Tuesday 6<sup>th</sup>, December 2016**

**08:30-18:45 Welcome Desk**

**09:45-10:00 Session O – Opening Session  
(Room 80.11.06)**

**OPENING SESSION**

*Profs. Elspeth McKay and Pedro Isaías*

**10:00-11:00 Session KL1 – Keynote Presentation  
(Room 80.11.06)**

**RIDING THE INNOVATION WAVE, AUSTRALIAN ICT PRACTICE IN A GLOBAL CONTEXT**

*by Ms. Brenda Aynsley, OAM, Fellow ACS, Australia*

**11:00-11:30 Coffee Break**

**11:30-12:45 Session FRP 6.1  
Digital Services in e-Society  
(Room 80.11.06)**

**ECG IDENTIFICATION SYSTEM USING NEURAL NETWORK WITH GLOBAL AND LOCAL FEATURES (F063)**

*Kuo-Kun Tseng, Dachao Lee and Charles Chen*

**SMARTENING UP: ONGOING CHALLENGES FOR AUSTRALIA'S OUTBACK (F021)**

*Lucy Craddock*

**SYNTHETIC BIOLOGY: KNOWLEDGE ACCESSED BY EVERYONE (OPEN SOURCES) (R090)**

*Patricia Margarita Sánchez Reyes*

**11:30-13:00 Session FP 6.2  
Podcasting for Broadcasting Video Lectures // Other  
(Room 80.11.07)**

**EVALUATING THE DESIGN AND DEVELOPMENT OF AN ADAPTIVE E-TUTORIAL MODULE: A RASCH-MEASUREMENT APPROACH (F201)**

*Allaa Barefah and Elspeth McKay*

**TOWARDS A FRAMEWORK TO IMPROVE THE QUALITY OF TEACHING AND LEARNING: CONSCIOUSNESS AND VALIDATION IN COMPUTER ENGINEERING SCIENCE, UCT (F083)**

*Marcos Lévano and Andrea Albornoz*

**ANALYSING STUDENTS' INTERACTIONS THROUGH SOCIAL PRESENCE AND SOCIAL NETWORK METRICS (F192)**

*Vanessa Cristina Martins da Silva and Sean Wolfgang Matsui Siqueira*

**13:00-14:00 Lunch Break**

**14:00-15:00 Session FP 6.3  
Semantic Web and XML // Software Requirements and Web Architectures  
(Room 80.11.07)**

**EXTRACTION OF GRAPH INFORMATION BASED ON IMAGE CONTENTS AND THE USE OF ONTOLOGY (F088)**

*Sarunya Kanjanawattana and Masaomi Kimura*

**APPLICABILITY OF DOMAIN-SPECIFIC APPLICATION FRAMEWORK FOR END-USER DEVELOPMENT (F074)**

*Takeshi Chusho*

**14:00-14:35 Session SRP 6.4**  
**Sustainability and Green IT**  
**(Room 80.11.06)**

**GREEN IT MODEL FOR IT DEPARTMENTS IN GULF COOPERATION COUNCIL (GCC) ORGANISATIONS (S119)**  
*Abdulaziz Albahlal*  
**CLOUD COMPUTING IN HIGHER EDUCATION SECTOR FOR SUSTAINABLE DEVELOPMENT (R118)**  
*Yuchao Duan*

**15:00-16:00 Session KL2 – Keynote Presentation**  
**(Room 80.11.06)**

**NON-DISCIPLINE GRADUATE SKILLS: REVIEW AND ASSESSMENT**  
*by Dr. Kathy Lynch, University of the Sunshine Coast, Australia*

**16:00-16:30 Coffee Break**

**16:30-18:40 Session FSP 6.5**  
**Information Management // Other**  
**(Room 80.11.06)**

**APPLICATION OF BUSINESS INTELLIGENCE SYSTEM IN COMPANY RESTRUCTURING PROCESS: THE CASE OF CROATIA (F082)**  
*Iva Bakula, Katarina Ćurko, Mirjana Pejić Bach and Vesna Bosilj Vukšić*  
**METHOD TO IDENTIFY DEEP CASES BASED ON RELATIONSHIPS BETWEEN NOUNS, VERBS, AND PARTICLES (F077)**  
*Daisuke Ide and Masaomi Kimura*  
**LEVERAGING DATA ANALYSIS FOR DOMAIN EXPERTS: AN EMBEDDABLE FRAMEWORK FOR BASIC DATA SCIENCE TASKS (F080)**  
*Johannes-Y. Lohrer, Daniel Kaltenthaler and Peer Kröger*  
**AN E-LEARNING SYSTEM WITH MR FOR EXPERIMENTS INVOLVING CIRCUIT CONSTRUCTION TO CONTROL A ROBOT (S092)**  
*Atsushi Takemura*  
**RACING TO THE FUTURE: SECURITY IN THE GIGABIT RACE? (S053)**  
*Mark A. Gregory and Lucy Craddock*

**16:30-18:30 Session FSP 6.6**  
**Social Media in Education // Education in the Network Society**  
**(Room 80.11.07)**

**DIFFERENCES BETWEEN PERCEIVED USEFULNESS OF SOCIAL MEDIA AND INSTITUTIONAL CHANNELS BY UNDERGRADUATE STUDENTS (F159)**  
*Leandro Sumida Garcia and Camila Mariane Costa Silva*  
**APPLICATION OF DIGITAL CYBERSECURITY APPROACHES TO UNIVERSITY MANAGEMENT – VFU SMART STUDENT (F176)**  
*Anna Nedyalkova, Teodora Bakardjieva and Krasimir Nedyalkov*  
**INTEGRATE WECHAT WITH MOODLE TO PROVIDE A MOBILE LEARNING ENVIRONMENT FOR STUDENTS (F089)**  
*Zhigao Li, Yibo Fan and Jianli Jiao*  
**SOCIAL NETWORKING FRAMEWORK FOR UNIVERSITIES IN SAUDI ARABIA (S144)**  
*Sulaiman Alqahtani*  
**USE OF COGNITIVE AND METACOGNITIVE STRATEGIES IN ONLINE SEARCH: AN EYE-TRACKING STUDY (P038)**  
*Mingming Zhou and Jing Ren*

## Wednesday 7<sup>th</sup>, December 2016

08:30-15:30 Welcome Desk

09:30-11:00 Session FSP 7.1  
Sustainability and Education  
(Room 80.11.06)

A RETHINK FOR COMPUTING EDUCATION FOR SUSTAINABILITY (F130)  
*Samuel Mann*  
DESIGN THINKING: A METHODOLOGY TOWARDS SUSTAINABLE PROBLEM SOLVING IN HIGHER EDUCATION IN SOUTH AFRICA (S129)  
*Keneilwe Munyai*  
NEW ECOLOGICAL PARADIGM AND SUSTAINABILITY ATTITUDES WITH RESPECT TO A MULTI-CULTURAL EDUCATIONAL MILIEU IN CHINA (S086)  
*Mona Wells and Lynda Petherick*  
HOW DOES THE USE OF MOBILE DEVICES AFFECT TEACHERS' PERCEPTIONS ON MOBILE LEARNING? (S033)  
*Dong-Joong Kim, Daesang Kim and Sang-Ho Choi*

09:10-11:00 Session FSP 7.2  
Curricular Evolution // International Higher Education  
(Room 80.11.07)

EDUCATIONAL ROBOTS IN PRIMARY SCHOOL TEACHERS' AND STUDENTS' OPINION ABOUT STEM EDUCATION FOR YOUNG LEARNERS (F150)  
*Eugenia Smyrnova-Trybulska, Natalia Morze, Piet Kommers, Wojciech Zuziak and Mariia Gladun*  
TOWARDS THE SUCCESSFUL INTEGRATION OF DESIGN THINKING IN INDUSTRIAL DESIGN EDUCATION (F170)  
*Omar Mubin, Mauricio Novoa and Abdullah Al Mahmud*  
INTERNATIONAL STUDY TOURS: A KEY TO 21ST CENTURY ACADEMIC AND INDUSTRY EXCHANGES (F164)  
*Ana Hol, Danielle Simiana, Gilbert Lieu, Ivan Ong, Josh Feder, Nimat Dawre and Wakil Almazi*  
RETHINKING E-LEARNING MEDIA: WHAT HAPPENS WHEN STUDENT LIKE MEETS PROFESSOR ME? (S193)  
*Stephen Arnold*

11:00-11:30 Coffee Break

11:30-12:30 Session KL1 – Keynote Presentation  
(Room 80.11.06)

*Professor Pedro Isaías, University of Queensland, Brisbane, Australia*

12:30-13:00 Doctoral Consortium  
(Room 80.11.06)

A MODEL FOR AN INFORMATION SECURITY RISK MANAGEMENT (ISRM) FRAMEWORK FOR SAUDI ARABIAN ORGANISATIONS (D024)  
*Naser Alshareef*

13:00-14:00 Lunch Break

14:00-14:45 Session FRP 7.3  
e-Business / e-Commerce  
(Room 80.11.06)

INVESTIGATING THE IDENTITY THEFT PREVENTION STRATEGIES IN M-COMMERCE (F073)  
*Mahmood Hussain Shah, Javed Ahmed and Zahoor Ahmed Soomro*  
EXPLORING CONNECTIVISM IN THE CONTEXT OF ONLINE SOCIAL TRADING (R050)  
*Endrit Kromidha*

**14:00-15:00 Posters Session  
(Room 80.11.07)**

**A PRELIMINARY INVESTIGATION INTO THE INFORMATION SHARING BEHAVIOR OF SOCIAL MEDIA USERS AFTER A NATURAL DISASTER (P093)**

*Yukiko Maruyama*

**EFFECTS OF A TECHNOLOGY-FRIENDLY EDUCATION PROGRAM ON PRE-SERVICE TEACHERS' PERCEPTIONS AND LEARNING STYLES (P122)**

*Dong-Joong Kim and Sang-Ho Choi*

**DEVELOPMENT OF A DIAGNOSTIC SYSTEM FOR INFORMATION ETHICS EDUCATION (P151)**

*Shingo Shiota, Kyohei Sakai and Keita Kobayashi*

**A PRACTICAL STUDY OF MATHEMATICS EDUCATION USING GAMIFICATION (P153)**

*Kyohei Sakai and Shingo Shiota*

**DEVELOPMENT OF TRAINING/SELF-RECOGNIZING TOOLS FOR DISABILITY STUDENTS USING A FACE EXPRESSION RECOGNITION SENSOR AND A SMART-WATCH (P156)**

*Taku Kawada, Akinobu Ando, Hirotaka Saito, Jun Uekida, Nobuyuki Nagai, Hisashi Takeshima and Darold Davis*

**DEMONSTRATING THE COLLATREX FRAMEWORK FOR COLLABORATIVE CONTEXT-AWARE MOBILE TRAINING AND EXPLORATION (P161)**

*Jean Botev*

**ANALYSIS OF USAGE TRENDS OF SOCIAL MEDIA AND SELF-ESTEEM BY THE ROSENBERG SCALE (P177)**

*Hiroko Kanoh*

**15:30 Social Event**

**Thursday, 8<sup>th</sup> December 2016**

**08:30-13:10 Welcome Desk**

**9:10-11:00 – Session FSP 8.1**

**Sustainability and Marketing and Barding // Sustainability, value and business strategy // Sustainability and Social (Room 80.11.06)**

**EVALUATING ECO-INNOVATION OF OECD COUNTRIES WITH DATA ENVELOPMENT ANALYSIS (F133)**

*Reza Kiani Mavi and Craig Standing*

**REVEALING GREENWASHING: A CONSUMERS' PERSPECTIVE (F026)**

*Anne Brouwer*

**BENCHMARKING ANTHROPOGENIC HEAVY METALS EMISSIONS: AUSTRALIAN AND GLOBAL URBAN ENVIRONMENTAL HEALTH RISK BASED INDICATORS OF SUSTAINABILITY (F080)**

*Nick Dejkovski*

**CATEGORIZING 'OTHERS': THE SEGMENTATION OF OTHER ACTORS FOR 'FAITH IN OTHERS' EFFICACY (FIO) (S072)**

*Chi Kwan Ng and Clare D'Souza*

**9:30-11:00 – Session FP 8.2**

**Education as Professional Field**

**(Room 80.11.07)**

**SCALING A MODEL OF TEACHER PROFESSIONAL LEARNING – TO MOOC OR NOT TO MOOC? (F172)**

*Deirdre Butler, Margaret Leahy, Michael Hallissy and Mark Brown*

**A PRELIMINARY STUDY ON BUILDING AN E-EDUCATION PLATFORM FOR INDIAN SCHOOL-LEVEL CURRICULA (F116)**

*Rajeev Kumar Kanth and Mikko-Jussi Laakso*

**AUTOMATED ASSESSMENT IN MASSIVE OPEN ONLINE COURSES (F184)**

*Dmitrii A. Ivaniushin, Dmitrii G. Shtennikov, Eugene A. Efimchick and Andrey V. Lyamin*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session FP 8.3**

**Mobile Applications**

**(Room 80.11.06)**

**AN EVALUATION OF IPAD AS A LEARNING TOOL IN HIGHER EDUCATION WITHIN A RURAL CATCHMENT: A CASE STUDY AT A SOUTH AFRICAN UNIVERSITY (F041)**

*Ruth Diko Wario, Bonface Ngari Ireri and Lizette De Wet*

**CAR APP'S PERSUASIVE DESIGN PRINCIPLES AND BEHAVIOR CHANGE (F051)**

*Chao Zhang, Lili Wan and Daihwan Min*

**EVALUATING THE QUALITY OF EXPERIENCE OF A SYSTEM FOR ACCESSING EDUCATIONAL OBJECTS IN HEALTH (F070)**

*Miguel Wanderley, Júlio Menezes Jr., Cristine Gusmão and Rodrigo Lins*

**11:30-12:50 Session FSRP 8.4**

**Integrating Educational Technologies**

**(Room 80.11.07)**

**DEVELOPING A TECHNOLOGY ENHANCED CS0 COURSE FOR ENGINEERING STUDENTS (F121)**

*Erno Lokkila, Erkki Kaila, Rolf Lindén, Mikko-Jussi Laakso and Erkki Sutinen*

**TELLING THE STORY OF MINDRISING: MINECRAFT, MINDFULNESS AND MEANINGFUL LEARNING (S175)**

*Deirdre Butler, Mark Brown and Gar Mac Críosta*

**BLUE OCEAN STRATEGY FOR HIGHER EDUCATION (R154)**

*Ricardo Bragança*

**EXPLORING HOW DIGITAL MEDIA TECHNOLOGY CAN FOSTER SAUDI EFL STUDENTS' ENGLISH LANGUAGE LEARNING (R206)**

*Abdulmohsin Altawil*

**13:00 Best Paper Awards Ceremony and Closing Session**

**(Room 80.11.06)**

**CLOSING SESSION**

*Profs. Elspeth McKay and Pedro Isaías*