14th International Conference on

Cognition and Exploratory Learning in Digital Age
CELDA 2017

Vilamoura, Algarve, Portugal

CONFERENCE PROGRAM

Wednesday 18th, October 2017

08:30-19:10 Welcome Desk

09:45-10:00 Session O – Opening Session
(Room Tejo 2)

OPENING SESSION

10:00-11:00 Session KL1 – Keynote Presentation
(Room Tejo 2)

CLASSROOM ORCHESTRATION: FROM PRACTICAL TIPS TO FORMAL MODELS
by Prof. Pierre Dillenbourg, Director, EPFL Center for Digital Education, Swiss Federal Institute of Technology, Lausanne, Switzerland

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 18.1
Technology, Learning And Expertise
(Room Tejo 2)
Chair: Pierre Dillenbourg

MOBILE LEARNING ANALYTICS IN HIGHER EDUCATION: USABILITY TESTING AND EVALUATION OF AN APP PROTOTYPE (F120)
Matthias Kuhnel, Luisa Seiler, Andrea Honal and Dirk Ifenthaler
DIGITAL COMPETENCE MODEL OF DISTANCE LEARNING STUDENTS (F128)
Ketia Kellen A. da Silva and Patricia A. Behar
LEVERAGING THE AFFORDANCES OF MOBILE LEARNING FOR VOCABULARY GAINS (S100)
Michael Bowles

11:30-13:00 Session FP 18.2
Educational Psychology // Other
(Room Lima)
Chair: Joao Negreiros

ARE LEARNING LOGS RELATED TO PROCRASTINATION? FROM THE VIEWPOINT OF SELF-REGULATED LEARNING (F157)
Masanori Yamada, Misato Oi and Shin'ichi Konomi
ASYMMETRY IN THE PERCEPTION OF FRIENDSHIP IN STUDENTS GROUPS (F158)
Luigi Lancieri
EXPLORING TEACHER USE OF AN ONLINE FORUM TO DEVELOP GAME-BASED LEARNING LITERACY (F053)
IAmanda Barany, Mamta Shah and Aroutis Foster

13:00-14:30 Lunch Break

14:30-16:20 Session FSP 18.3
Technology, Learning And Expertise
(Room Tejo 2)
Chair: Maria Cutumisu

HOW DISPOSITIONAL LEARNING ANALYTICS HELPS UNDERSTANDING THE WORKED-EXAMPLE PRINCIPLE (F019)
Dirk Tempelaar
DEVELOPMENT OF A SUPPORT APPLICATION AND A TEXTBOOK FOR PRACTICING FACIAL EXPRESSION DETECTION FOR STUDENTS WITH VISUAL IMPAIRMENT (S126)
Hirotaka Saito, Akinobu Ando, Shota Itagaki, Taku Kawada, Darold Davis and Nobuyuki Nagai
TEACHING MEDIA DESIGN BY USING SCRUM. A QUALITATIVE STUDY WITHIN A MEDIA INFORMATICS' ELECTIVE COURSE (S020)
Ines Herrmann, Sander Münster, Vincent Tietz and Rainer Uhlemann
AN ARCHITECTURE TO SUPPORT WEARABLES IN EDUCATION AND WELLBEING (S174)
Fernando Luis-Ferreira, Andreia Artifice, Gary McManus and João Sarraipa
DIFFERENTIATED LEARNING ENVIRONMENT – A CLASSROOM FOR QUADRATIC EQUATION, FUNCTION AND GRAPHS (S111)
Emre Dinç

16:30-17:00 Coffee Break

17:00-19:00 Session FSP 18.4
Learning Communities & Web Service Technologies // Technology, Learning and Expertise
(Room Tejo 2)
Chair: Jenny Eppard

PUSHING BUTTONS: A SOCIOMATERIAL EXPLORATION OF THE DISTRIBUTED LECTURE (F028)
Anna MacLeod, Paula Cameron, Olga Kits and Cathy Fournier
MULTIMODAL TEACHING AND LEARNING WITH THE USE OF TECHNOLOGY: MEANINGS, PRACTICES AND DISCOURSES (F165)
Vasiliki Papageorgiou and Petros Lameras
TOWARDS A FRAMEWORK OF USING KNOWLEDGE TOOLS FOR TEACHING BY SOLVING PROBLEMS IN TECHNOLOGY-ENHANCED LEARNING ENVIRONMENT (S102)
Sergei Kostousov and Dmitry Kudryavtsev
EXPLORING STUDENTS' LEARNING JOURNALS WITH WEB-BASED INTERACTIVE REPORT TOOL (S168)
Yuta Taniguchi, Fumiya Okubo, Atsushi Shimada and Shin'ichi Konomi
THE FRAMEWORK OF INTERVENTION ENGINE BASED ON LEARNING ANALYTICS (S182)
Muhittin Şahin and Halil Yurdugül

19:15-19:45 Welcome Cocktail (for registered participants)

Thursday 19th, October 2017

08:30-15:30 Welcome Desk

08:50-11:00 Session FSP 19.1
Assessing Progress of Learning in Complex Domains // Assessment of Exploratory Technologies
(Room Tejo 2)
Chair: Masanori Yamada

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360 DEGREE VIDEOS WITHIN A CLIMBING MOOC (F086)
Michael Gänsluckner, Martin Ebner and Isidor Kamrat
CULTIVATING STUDENTS' READING LITERACY USING DIGITAL LEXILE-BASED READING IN A CHINESE PRIMARY SCHOOL (F162)
Patricia Norte, Joao Negreiros and Ana Correia
HOW TO FLIP A CLASSROOM AND IMPROVE STUDENT LEARNING AND ENGAGEMENT: THE CASE OF PSYC1030 (F154)
Pedro Isaias, Blake McKimmie, Aneesha Bakharia, John Zornig and Anna Morris
NARB-BASED ANALYSIS OF TWEETS RELATED TO UNITED AIRLINES CONTROVERSY: LEARNING BEYOND THE MEDIA (S083)
Ananda Mitra
LEARNERS' AND TEACHERS' PERCEPTIONS OF LEARNING ANALYTICS (LA): A CASE STUDY OF SOUTHAMPTON SOLENT UNIVERSITY (SSU) (S056)
Osama Khan

09:00-11:00 Session FSP 19.2
Cognition in Education // Virtual University
(Room Lima)
Chair: Dirk Tempelaar

EXPLORING THE IMPACT OF THE INFORMATIONAL VALUE OF FEEDBACK CHOICES ON PERFORMANCE OUTCOMES IN AN ONLINE ASSESSMENT GAME (F058)
Maria Cutumisu
REFINING PRESENTATION DOCUMENTS WITH PRESENTATION SCHEMA (F132)
Yuki Obara and Akihiro Kashihara
RELATIONS BETWEEN COGNITIVE RESOURCES AND TWO TYPES OF GERMANE LOAD FOR LEARNING (S075)
Kazuhisa Miwa, Hitoshi Terai and Yosuke Mizuno
DEVELOPMENT OF CRITICAL THINKING WITH METACOGNITIVE REGULATION AND TOULMIN MODEL (S032)
Yasushi Gotoh
A PRELIMINARY INVESTIGATION INTO PARENTS' CONCERNS ABOUT PROGRAMMING EDUCATION IN JAPANESE PRIMARY SCHOOLS (S164)
Yukiko Maruyama, Hiroko Kanoh and Kinya Adachi

11:00-11:30 Coffee Break

11:30-13:00 Session FP 19.3
Student-centered Learning
(Room Tejo 2)
Chair: Sander Muenster

OCRA, A MOBILE LEARNING PROTOTYPE FOR UNDERSTANDING CHEMISTRY CONCEPTS (F179)
Tenku Putri Norishah Tenku Shariman and Othman Talib
TEACHING STRATEGIES AND METHODS IN MODERN ENVIRONMENTS FOR LEARNING OF PROGRAMMING (F099)
Slobodanka Djenic and Jelena Mitic
A LECTURE SUPPORTING SYSTEM BASED ON REAL-TIME LEARNING ANALYTICS (F116)
Atsushi Shimada and Shin'ichi Konomi

11:30-13:00 Session FP 19.4
Technology, Learning and Expertise
(Room Lima)
Chair: Nan Adams

CONTRASTS IN OPENNESS TOWARD MOBILE LEARNING IN THE CLASSROOM: A STUDY OF ELEMENTARY, MIDDLE AND HIGH SCHOOL TEACHERS (F169)
Rhonda Christensen and Gerald Knezek
CLASSIFICATION OF LEARNING STYLES IN VIRTUAL LEARNING ENVIRONMENT USING J48 DECISION TREE (F074)
Renato R. Maaliw III and Melvin A. Ballera
USING SHORT VIDEOS AS TESTING ELEMENTS IN SKILL MATCHING - TEST DESIGN IN THE SMART PROJECT (F112)
Marc Beutner and Frederike Anna Rüscher

13:00-14:20 Lunch Break

14:20-15:25 Session FSRP 19.5
Collaborative Learning // Learning Paradigms in Academia
(Room Tejo 2)
Chair: Joan Swanson

THE KNOWLEDGE DEVELOPMENT MODEL: RESPONDING TO THE CHANGING LANDSCAPE OF LEARNING IN VIRTUAL ENVIRONMENTS (F107)
Nan B. Adams
ISSUES OF IT-PROFESSIONALS TRAINING IN TRADITIONAL EDUCATIONAL PROCESS (S172)
Farid Eminov and Irina Golitsyna
LOCALISING CONTENT FOR AN XMOOC IN THE UAE (R097)
Jenny Eppard and Preeya Reddy

14:30-15:15 Session FRP 19.6
Virtual University
(Room Lima)
Chair: Suzanne De Castell

CHARACTERISTICS OF EFFECTIVE PEDAGOGICAL STRATEGIES FOR SELF-REGULATED LEARNING IN TECHNOLOGY-ENHANCED ENVIRONMENTS: TOWARDS IMPROVING LEARNING OUTCOME (F135)
Ian S. McGowan
ACADEMIC READING ON A COLLABORATIVE, ONLINE PLATFORM (R098)
Jenny Eppard and Preeya Reddy

15:30 – Social Event - Conference Tour and Dinner

Friday 20th, October 2017

08:30-13:00 Welcome Desk

09:10-11:00 Session FSP 20.1
Exploratory Technologies
(Room Tejo 2)
Chair: Dirk Tempelaar

PSEUDO-HAPTIC FEEDBACK FOR PROMOTING NARRATIVE COMPREHENSION (F145)
Kazuaki Umetsu and Akihiro Kashihara
DESIGNING PHILADELPHIA LAND SCIENCE AS A GAME TO PROMOTE IDENTITY EXPLORATION (S050)
Amanda Barany, Mamta Shah, Jessica Cellitti, Migela Duka, Zachari Swiecki, Amanda Evenstone, Hannah Kinley, Peter Quigley,
David Williamson Shaffer and Aroutis Foster
JUXTAPOSE: AN EXPLORATION OF MOBILE AUGMENTED REALITY COLLABORATIONS AND PROFESSIONAL PRACTICES
IN A CREATIVE LEARNING ENVIRONMENT (S110)
Darren Menorath and Laurent Antonczak
GENDER, GAMES AND SPACE (S114)
Suzanne de Castell, Hector Larios and Jennifer Jenson
THE CONTRIBUTION OF COLLECTIVE INTELLIGENCE FOR THE ANALYSIS OF THE PHENOMENON OF STUDENTS
OVERCROWDING (S160)
Dikagma Bassagou and Luigi Lancieri

11:00-11:30 Coffee Break

11:30-12:50 Session FSP 20.2
Technology, Learning and Expertise
(Room Tejo 2)
Chair: Maria Cutumisu

I MIGHT NOT BE AS TECH AS YOU THINK: COLLEGIATE PRINT VERSUS DIGITAL PREFERENCES (F138)
Joan Ann Swanson, Susan L. Renes and Anthony T. Strange
A VISUALIZATION SYSTEM FOR PREDICTING LEARNING ACTIVITIES USING STATE TRANSITION GRAPHS (F142)
Fumiya Okubo, Atsushi Shimada, Yuta Taniguchi and Shin'ichi Konomi
ON THE USE OF E-TPCK FOR SITUATED TEACHER PROFESSIONAL DEVELOPMENT (S191)
Maria Mama Timotheou, Andri Christodoulou and Charoula Angeli

12:50 Best Paper Awards Ceremony and Closing Session
(Room Tejo 2)