12th International Conference on Cognition and Exploratory Learning in Digital Age
CELSA 2015
Maynooth, Greater Dublin, Ireland

CONFERENCE PROGRAM

Saturday 24th, October 2015

08:30-19:00 Welcome Desk

09:30-09:50 Session O – Opening Session
(Room JHL 4)

OPENING SESSION
Prof. J. Michael Spector, Dirk Ifenthaler and Pedro Isaías

09:50-11:00 Session KL1 – Keynote Presentation
(Room JHL 4)
INSTRUCTIONAL MESSAGE DESIGN: PAST, PRESENT, AND FUTURE RELEVANCE
by Professor MJ Bishop, Director, Center for Academic Innovation, University System of Maryland, USA

11:00-11:30 Coffee Break

11:30-13:00 Session FSP 24.1
Exploratory Technologies
(Room JHL 7)
Chair: Rhonda Christensen

DIVULGING PERSONAL INFORMATION WITHIN LEARNING ANALYTICS SYSTEMS (F213)
Dirk Ifenthaler and Clara Schumacher
TAGALONG: INFORMAL LEARNING FROM A REMOTE COMPANION WITH MOBILE PERSPECTIVE SHARING (F242)
Scott W. Greenwald, Mina Khan, Christian D. Vazquez and Pattie Maes
THE WORK OF CHILDREN: SEEKING PATTERNS IN THE DESIGN OF EDUCATIONAL TECHNOLOGY (S063)
Michael Eisenberg and Zack Jacobson-Weaver
TOWARDS SUPPORTING COMMUNICATION IN RELATIONSHIP AND SEXUALITY EDUCATION THROUGH A VLE (S215)
Marion McGinn and Inmaculada Arnedillo-Sánchez

13:00-14:30 Lunch Break

14:30-16:30 Session FP 24.3
Learning Paradigms In Academia // Life-long Learning
(Room JHL 4)
Chair: Dirk Morrison

ACCOUNTING PROFESSOR QUALIFICATION IN DIGITAL AGE: A PERCEPTION STUDY ON BRAZILIAN PROFESSORS (F230)
Maria Ivânice Vendruscolo and Patrícia Alejandra Behar
SUPERVISORY AND DIGITAL LITERACY PRACTICES IN POSTGRADUATE SUPERVISION: A CASE STUDY (F161)
Sarjit Kaur, Gurnam Kaur Sidhu, Lee Lai Fong and Leele Suzana Jamian
POSTGRADUATE STUDENTS’ LEVEL OF DEPENDENCE ON SUPERVISORS IN COPING WITH ACADEMIC MATTERS AND USING DIGITAL TOOLS (F162)
Gurnam Kaur Sidhu, Sarjit Kaur, Lim Peck Choo and Chan Yuen Fook
TOWARDS GATHERING INITIAL REQUIREMENTS OF DEVELOPING A MOBILE SERVICE TO SUPPORT INFORMAL LEARNING AT CULTURAL HERITAGE SITES (F108)
Alaa Alkhafaji, Sanaz Fallahkhair and Mihaela Cocea

TOWARDS A METADATA SCHEMA FOR CHARACTERIZING LESSON PLANS SUPPORTED BY VIRTUAL AND REMOTE LABS IN SCHOOL SCIENCE EDUCATION (F110)
Panagiotis Zervas, Eleftheria Tsourlidaki, Sofoklis Sotiriou and Demetrios G. Sampson
A PROGRAM COMPLEXITY METRIC BASED ON VARIABLE USAGE FOR ALGORITHMIC THINKING EDUCATION OF NOVICE LEARNERS (S069)
Minori Fawa, Mizue Kayama, Hisayoshi Kunitone, Masami Hashimoto and David K. Asano
APPS, ACCESSIBILITY AND USABILITY BY PEOPLE WITH VISUAL DISABILITIES (S082)
Eva María Olmedo-Moreno and Adrián López-Delgado
COMPARING LEARNER COMMUNITY BEHAVIOR IN MULTIPLE PRESENTATIONS OF A MASSIVE OPEN ONLINE COURSE (S158)
Silvia Elena Gallagher and Timothy Savage

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16:30-17:00 Coffee Break

17:00-18:50 Session FSP 24.5
Assessing Progress of Learning In Complex Domains // Assessment of Exploratory Technologies
(Room JHL 4)
Chair: Michael Eisenberg

THE WIL, SKILL, TOOL MODEL OF TECHNOLOGY INTEGRATION: ADDING PAGOGY AS A NEW MODEL CONSTRUCT (F115)
Gerald Knezek and Rhonda Christensen

CHALLENGES OF BIG DATA IN EDUCATIONAL ASSESSMENT (F131)
David C. Gibson, Mary Webb and Dirk Ifenthaler

EVALUATING THE INTERACTIVE LEARNING TOOL SIMREAL+ FOR VISUALIZING AND SIMULATING MATHEMATICAL CONCEPTS (F044)
Said Hadjerrouit

DEVELOPING ADOLESCENTS’ RESISTANCE TO SEXUAL COERCION THROUGH ROLE-PLAYING ACTIVITIES IN A VIRTUAL WORLD (S166)
Marion McGinn and Inmaculada Arnedillo-Sánchez

17:00-18:50 Session FSP 24.6
Technology, Learning And Expertise
(Room JHL 7)
Chair: Kathy Fuller

INSIDE THE DIGITAL WILD WEST: HOW SCHOOL LEADERS BOTH ACCESS AND AVOID SOCIAL MEDIA (F188)
Laurie Corrigan and Lorayne Robertson

HOW DO HIGH SCHOOL STUDENTS PREFER TO LEARN? (F236)
Leila A. Mills and Patthachai Angnakoon

MORE THAN A BROKER: A CASE STUDY OF KNOWLEDGE MOBILIZATION IN A DIGITAL ERA (F180)
Lorayne Robertson

SIGNIFICANT CHANGES IN THE ENVIRONMENT AND IN TEACHING METHODOLOGY OF A E-LEARNING DISCIPLINE TO AVOID DROPOUTS IN A COURSE AT THE FEDERAL INSTITUTE (S090)
Gustavo Prado Oliveira, Päivi Aarreineni-Jokipielto and Ricardo Soares Bouaventura

Sunday 25th, October 2015

08:00-00:15:45 Welcome Desk

08:50-11:00 Session FSP 25.1
Cognition In Education // Acquisition Of Expertise
(Room: JHL 4)
Chair: Karl Donert

STUDIES RELATING TO COMPUTER USE OF SPELLING AND GRAMMAR CHECKERS AND EDUCATIONAL ACHIEVEMENT (F141)
Odette Bourjaili Radi

DESIGN THINKING AND METACOGNITIVE REFLECTIVE SCAFFOLDS: A GRAPHIC DESIGN-INDUSTRIAL DESIGN TRANSFER CASE STUDY (F144)
Chien-Sing Lee and Kuok-Shoong Daniel Wong

DEVELOPING A DISPOSITION FOR SOCIAL INNOVATIONS: AN AFFECTIVE-SOCIO-COGNITIVE CO-DESIGN MODEL (F193)
Chien-Sing Lee and Kuok-Shoong Daniel Wong

HOW CAN ONE LEARN MATHEMATICAL WORD PROBLEMS IN A SECOND LANGUAGE? A COGNITIVE LOAD PERSPECTIVE (S080)
Jane Mouass-Matni, Mark Causapin and Timothy Groombridge

08:50-11:00 Session FSP 25.2
Technology, Learning And Expertise
(Room: JHL 7)
Chair: Said Hadjerrouit

A MODEL FOR UBQUITOUS SERIOUS GAMES DEVELOPMENT FOCUSED ON PROBLEM BASED LEARNING (F076)
Sandro Oliveira Dorneles, Cristiano André da Costa and Sandro Jose Rigo

PROCESS MODELS IN E-LEARNING – BOTTOM-UP OR TOP-DOWN? (F118)
Sarah Salih and Alke Martens

BLENDED INTERACTION FOR AUGMENTED LEARNING: AN ASSISTIVE TOOL FOR COGNITIVE DISABILITY (F054)
Suman Deb, Subir Saha and Paritosh Bhattacharya

HOW OLDER ADULTS USE VIRTUAL PERSONAL LEARNING NETWORKS TO SUPPORT INFORMAL, SELF-DIRECTED LIFELONG LEARNING GOALS: A RESEARCH PROGRAM DESCRIPTION (S204)
Dirk Morrison

COGNITIVE CURATIONS OF COLLABORATIVE CURRICULA (S245)
Amy S. Ackerman

11:00-11:30 Coffee Break
11:30-13:10 Session FSP 25.3
Student-centered Learning
(Room: JHL 4)
Chair: Aimee Brenner

EXAMINING THE EFFECTS OF FIELD TRIPS ON SCIENCE IDENTITY (F150)
Leila A. Mills and William Katzman

EDUCATION ON THE CLOUD: RESEARCHING STUDENT-CENTERED, CLOUD-BASED LEARNING PROSPECTS IN THE CONTEXT OF A EUROPEAN NETWORK (F222)
Hercules Panoutsopoulos, Karl Donert, Pannos Papoutsis and Ioannis Kotsanis

BRAIN 3M – A NEW APPROACH TO LEARNING ABOUT BRAIN, BEHAVIOR, AND COGNITION (S059)
Ping Li, Lauren E. Chaby, Jennifer Legault and Victoria A. Braithwaite

LEARNER-CONTENT-INTERFACE AS AN APPROACH FOR SELF-RELIANT AND STUDENT-CENTERED LEARNING (S322)
Robin Nicolay, Bastian Schwennigeke, Sarah Sahl and Alke Martens

11:30-12:50 Session SP 25.4
Technology, Learning And Expertise
(Room: JHL 7)
Chair: Dirk Ifenthaler

E-FUNDI AS A VIABLE WAY TO DO E-MENTORING (S116)
George A. Lotter

HEALTH CARE: ROLE OF ICT IN AUTISM (S147)
Hafiza Maimoona Shuhid, Sohail Tariq, Imran Saleem, Muhammad Adil Butt, Arslan Tariq and Iqra Tariq

INVESTIGATION INTO UNDERGRADUATE INTERNATIONAL STUDENTS’ USE OF DIGITAL TECHNOLOGY AND THEIR APPLICATION IN FORMAL AND INFORMAL SETTINGS (S149)
Rebecca Sirachan and Sanas Aljubali

E-LEARNING SYSTEM FOR LEARNING VIRTUAL CIRCUIT MAKING WITH A MICROCONTROLLER AND PROGRAMMING TO CONTROL A ROBOT (S200)
Atsushi Takemura

13:00-14:30 Lunch Break

14:30-15:30 Session SP 25.5
Technology And Mental Models
(Room: JHL 4)
Chair: George Lotter

A SEMANTIC BASIS FOR MEANING CONSTRUCTION IN CONSTRUCTIVIST INTERACTIONS (S075)
Farshad Badie

MUSIC AS ACTIVE INFORMATION RESOURCE FOR PLAYERS IN VIDEO GAMES (S088)
Marian Nagorsnick and Alke Martens

MAKING CONSTRUALS AS A NEW DIGITAL SKILL FOR LEARNING (S225)
Maurit Bynum, Russell Boyatt, Jonathan Foss, Chris Hall, Elizabeth Hudnott, Steve Russ, Erkki Sutinen, Hamish Macleod and Piet Kornmors

14:30-15:15 Reflection Papers Session
(Room JHL 7)
Chair: J. Michael Spector

DEVELOPMENT OF CRITICAL THINKING SELF-ASSESSMENT SYSTEM USING WEARABLE DEVICE (R057)
Yasushi Gotoh

AN INNOVATIVE INTERDISCIPLINARY APPROACH TO PROVIDING INTERNSHIPS FOR COLLEGE SENIORS (R175)
Kathy Fuller

FOSTERING 21ST CENTURY SKILLS THROUGH GAME DESIGN AND DEVELOPMENT (R185)
Gregory P. Garvey

15:50 – Social Event - Conference Tour and Dinner

Monday 26th, October 2015

08:30-13:00 Welcome Desk

09:00-11:00 Session FSP 26.1
Collaborative Learning // Assessment of Exploratory Learning Approaches
(Room JHL 4)
Chair: Rose Dolan

TECHNOLOGY-ENHANCED PEDAGOGICAL FRAMEWORK FOR COLLABORATIVE CREATIVITY: ANALYSES OF STUDENTS’ PERCEPTION (F177)
Manoli Pifarré, Laura Martí and Andreea Cujba

COLLABORATIVE PROBLEM SOLVING IN SHARED SPACE (F220)
Lin Lin, Leila A. Mills and Dirk Ifenthaler

A FUNDAMENTAL STUDY FOR EFFICIENT IMPLEMENTATION OF ONLINE COLLABORATIVE ACTIVITIES IN LARGE-SCALE CLASSES (S153)
Ryuichi Mattsuda, Yusei Suzuki, Shin-Ichiro Kubota and Makoto Miyazaki

ENCOURAGING USER PARTICIPATION IN BLENDED LEARNING: COURSE REORIENTATION (S074)
Alca M. Fairchild

ASSESSING PROBLEM SOLVING COMPETENCE THROUGH INQUIRY-BASED TEACHING IN SCHOOL SCIENCE EDUCATION (S112)
Panagiotis Zervas, Sofoklis Sotiriou, Rüdiger Tiemann and Demetrios G. Sampson

11:00-11:30 Coffee Break
11:30-13:10 Session FSP 26.2
Student-centered Learning
(Room JHL 4)
Chair: Alea Fairchild

| TECHNOLOGY GOES BUSH: USING MOBILE TECHNOLOGIES TO SUPPORT LEARNING IN A BUSH KINDER PROGRAM (F217) | Jennifer Masters and Leanne Grogan |
| MOVING IN TIME TO A DIGITAL TUNE: A CRISIS IN OUR IDENTITY? (F049) | Breda McTaggart |
| CACHE-CACHE COMPARISON FOR SUPPORTING MEANINGFUL LEARNING (S051) | Jingyun Wang and Seiji Fujino |
| CREATING INNOVATIVE, STUDENT-CENTERED PROJECTS WITH APP SMASHING (S172) | Aimee M. Brenner and Janel S. Hauser |

11:30-12:15 Reflection Papers Session
(Room JHL 7)
Chair: J. Michael Spector

| EXPLORING TECHNOLOGY SUPPORTED COLLABORATIVE AND COOPERATIVE GROUP FORMATION MECHANISMS (R060) | Mia Čarapina and Ivica Boticki |
| DEVELOPING SELF-REGULATED LEARNERS THROUGH COLLABORATIVE ONLINE CASE DISCUSSION IN EDUCATIONAL PSYCHOLOGY (R072) | Patricia P. Willems and Alyssa Gonzalez-DeHass |
| STUDENT’S PERSPECTIVES ON TAKING COURSES ONLINE, BLENDED, OR A COMBINATION (R136) | Catherine C. Schifter, Dirk Ifenthaler and Daniel White |

13:10 Best Paper Awards Ceremony and Closing Session
(Room JHL 4)

Prof. J. Michael Spector, Dirk Ifenthaler and Pedro Isaías